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# DISTRIBUTION OVERHEAD STANDARD

Overhead Construction

PART 2 MISCELLANEOUS DRAWINGS

Record Number: R0002223229

Version Number: 1.0

Date: June 2022



Powering a  
Bright Future



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## Authorisations

| Action        | Name and title  | Date       |
|---------------|---|------------|
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| Reviewed by   | Michael Cooper - Principal Engineer, Overhead lines<br>Angus Ketley – Team Leader, Asset Engineering Overhead Lines<br>Darryl Munro – Team Leader, Network Asset Strategy | 22/06/2022 |
| Authorised by | James Goodger, Leader Engineering   | 24/06/2022 |
| Review cycle  | 5 Years   |            |

## Responsibilities

This document is the responsibility of the Asset Strategy Team, Tasmanian Networks Pty Ltd, ABN 24 167 357 299 (hereafter referred to as "TasNetworks").

Please contact the Asset Strategy Team with any queries or suggestions.

- Implementation                      All TasNetworks staff and contractors.
- Compliance                            All Group Managers.

## Record of revisions

The content of this manual was initially drawn from earlier TasNetworks legacy manuals and Aurora Energy manuals for overhead lines, LVABC and HVABC.

| <b>Section number</b> | <b>Date</b> | <b>Ver.</b> | <b>Details</b> |
|-----------------------|-------------|-------------|----------------|
| ALL                   | May 2022    | 1.0         | INITIAL ISSUE  |
|                       |             |             |                |
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| <b>10</b>      | Poles   |
| <b>11</b>      | Nil   |
| <b>12</b>      | Nil   |
| <b>13</b>      | Nil   |
| <b>14</b>      | Nil   |

## 0 SECTION 0 PRELUDE

This Part 2 of the Overhead Distribution Construction Manual contains miscellaneous constructions that are either obsolete or arrangements no longer used on Overhead Distribution constructions within the TasNetworks electrical network.

Drawings and components are in this Part 2 to ensure they remain accessible to personnel.

### Scope

The Distribution Design Standard for Overhead Distribution applies to the following asset types:

- High voltage overhead lines, i.e. 33 kV, 22 kV, 11 kV and SWER
- Low voltage overhead lines
- Pole-mounted plant, e.g. transformers, switches, reclosers, regulators and fuses
- Communications cables on poles (e.g. pilot cables, optical fibres, NBN cables).

Overhead materials shall comply with TasNetworks' current periodic contract for distribution equipment and specifications.

For interconnections to other TasNetworks electrical reticulation refer to the following standards:

- Underground cable terminations on poles – for further detail refer to the Distribution Design Standard for Underground System
- Private installations - for further detail refer to the Distribution Design Standard for Planning
- Public Lighting Equipment – refer Public Lighting Construction Manual.

The application of this design standard applies for both greenfield and brownfield sites, where the HV and LV reticulation is intended to be overhead. All designs shall be compliant in full with this standard. All non-compliance's are required to receive prior approval from the TasNetworks Planning, Asset Strategy and Asset Engineering Team.

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# SECTION 1- SERVICES



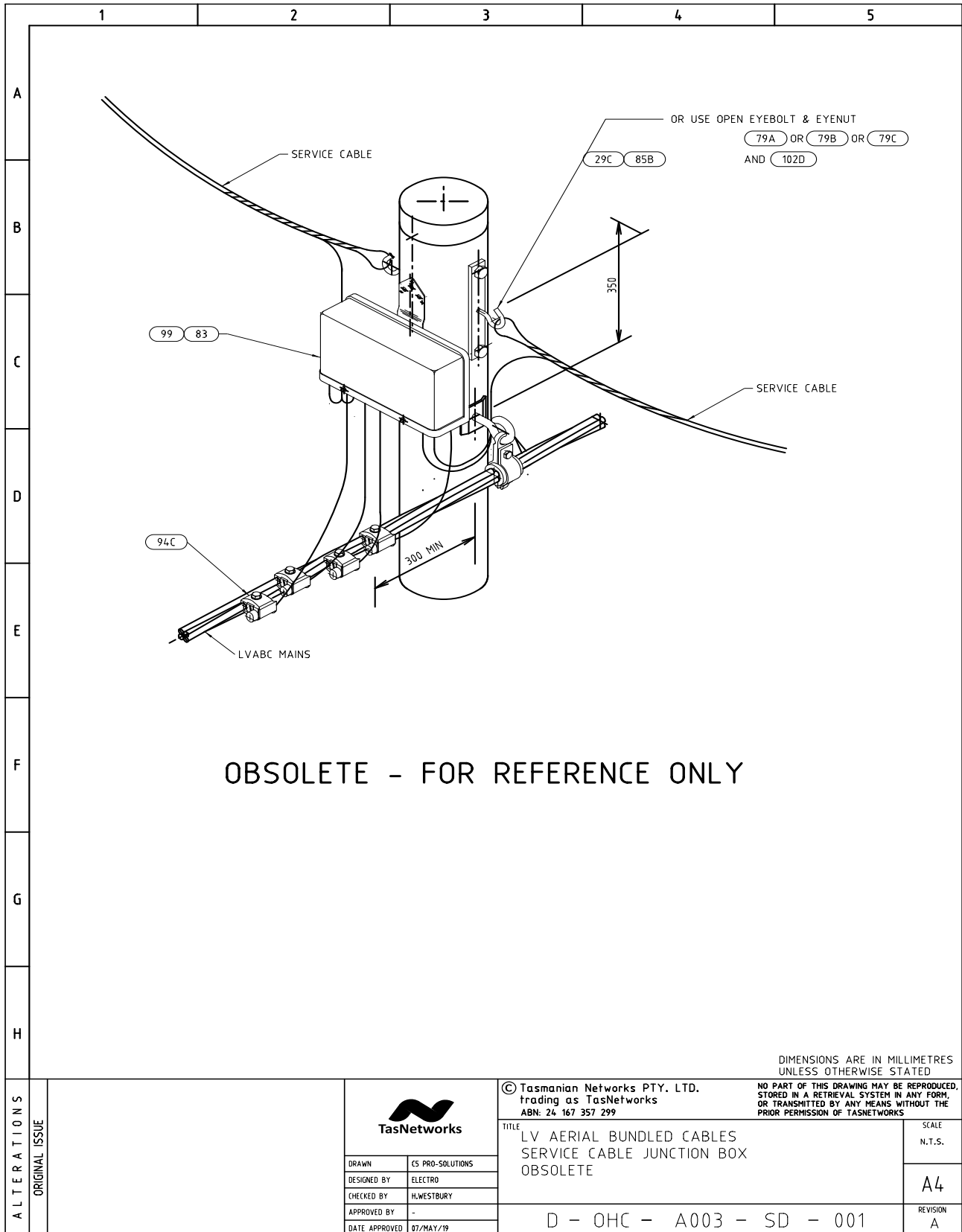
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# 1. SECTION 1 – SERVICES

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**OBSELETE CONSTRUCTIONS - REFERENCE ONLY**

**1.1 LVABC Mains – Service Cable Junction Boxes (Obsolete)**



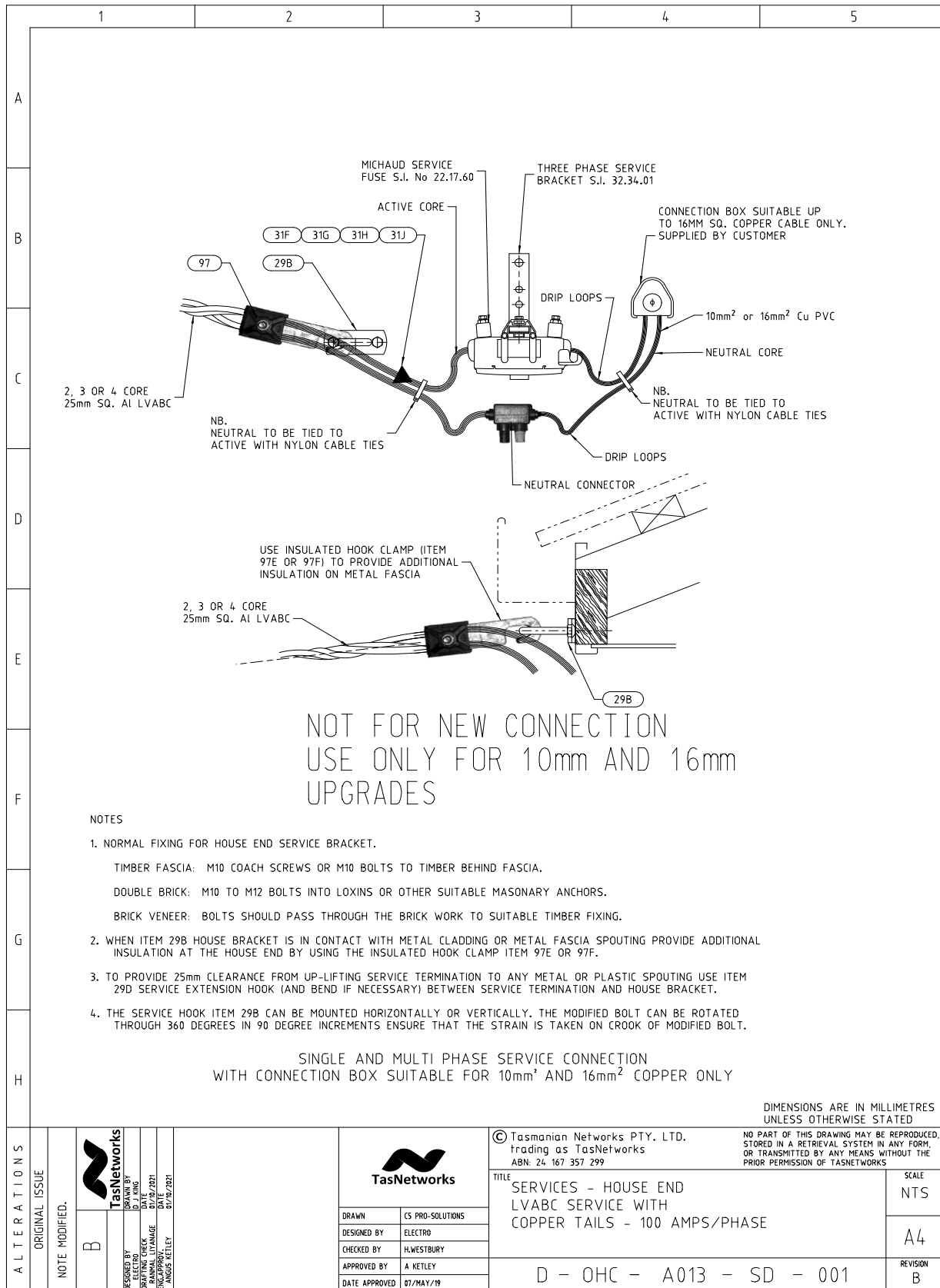
DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED

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 NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS

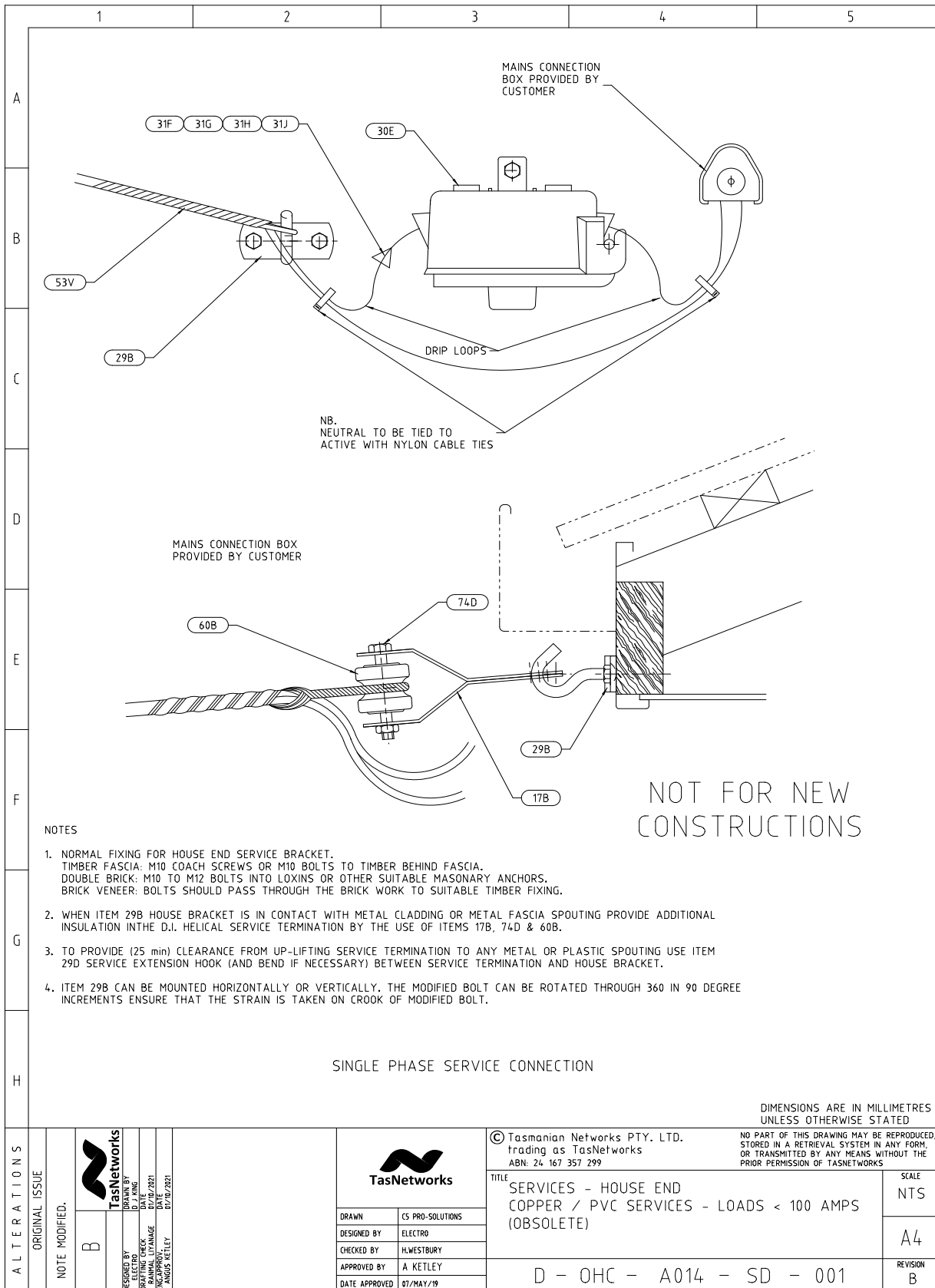
|             |                |             |                  |
|-------------|----------------|-------------|------------------|
| ALTERATIONS | ORIGINAL ISSUE |             |                  |
|             |                | DRAWN       | CS PRO-SOLUTIONS |
|             |                | DESIGNED BY | ELECTRO          |
|             |                | CHECKED BY  | H.WESTBURY       |
|             |                | APPROVED BY | -                |
|             | DATE APPROVED  | 07/MAY/19   |                  |

|  |               |
|--|---------------|
| TITLE  | SCALE         |
| LV AERIAL BUNDLED CABLES<br>SERVICE CABLE JUNCTION BOX<br>OBSELETE | N.T.S.        |
| D - OHC - A003 - SD - 001  | A4            |
|  | REVISION<br>A |

### 1.2 LVABC Service with Copper Tails - Load < 100 A / phase (Obsolete)

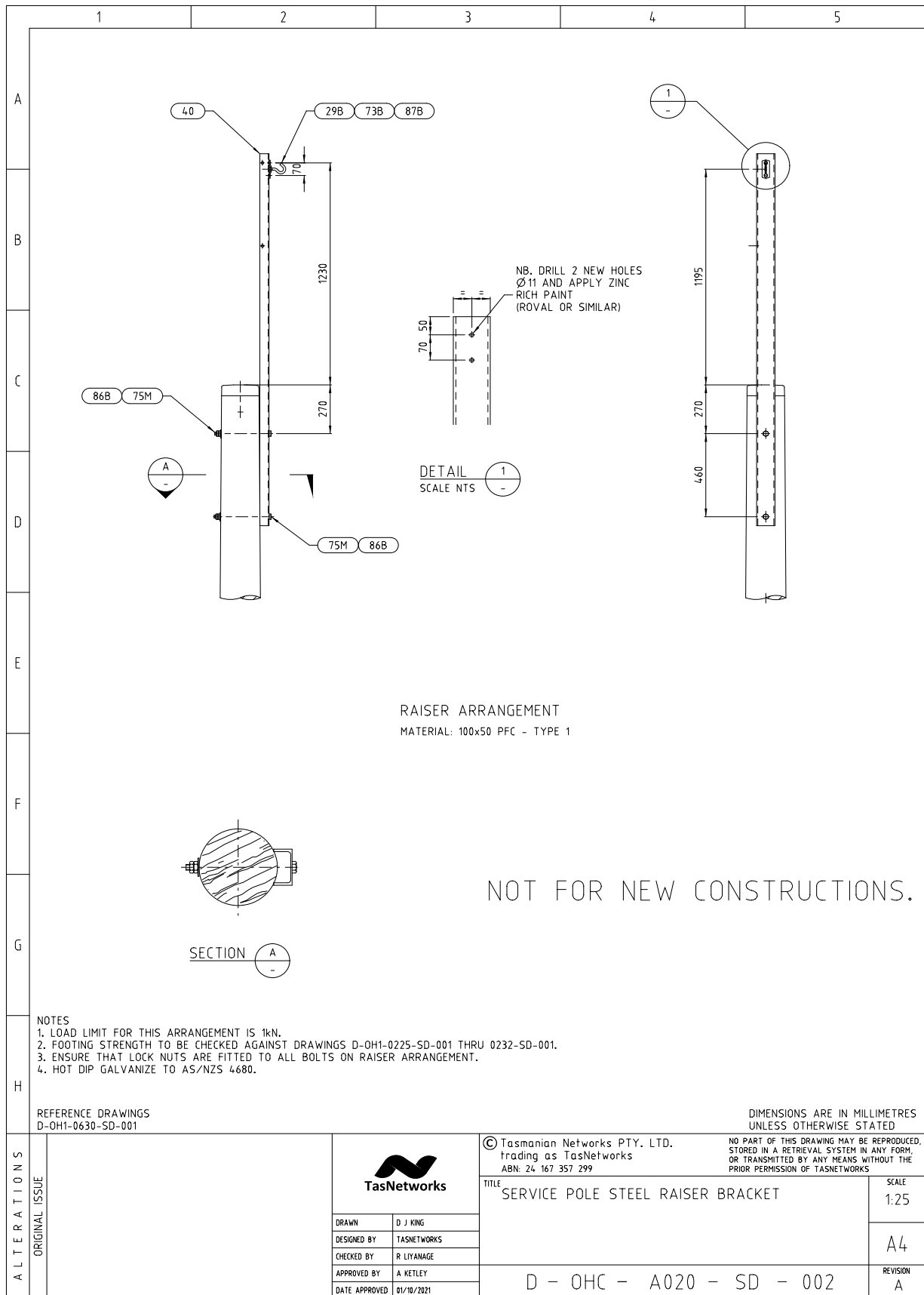


### 1.3 Copper / PVC Service – House End (Obsolete)

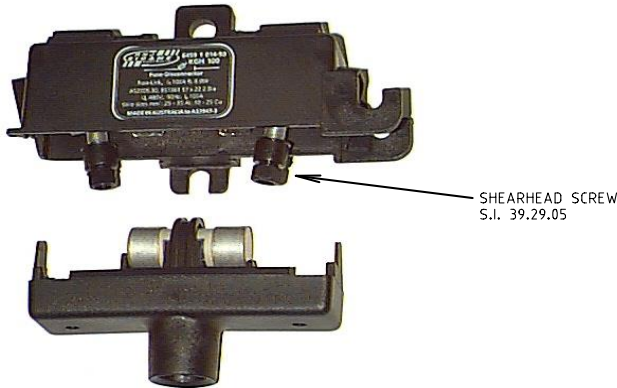





### 1.4 Service Pole Steel Raiser Bracket






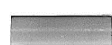


### 1.5 Service Fuseholders (Obsolete)

|  | 1   | 2                | 3   | 4 | 5  |                       |             |   |   |   |  |   |   |   |  |  |   |  |   |
|--|---|------------------|---|---|--|-----------------------|-------------|---|---|---|--|---|---|---|--|--|---|--|---|
| A  |   |                  |   |   |  |                       |             |   |   |   |  |   |   |   |  |  |   |  |   |
| B  |   |                  |   |   |  |                       |             |   |   |   |  |   |   |   |  |  |   |  |   |
| C  |   |                  |   |   |  |                       |             |   |   |   |  |   |   |   |  |  |   |  |   |
| D  | <p>SICAME 100 AMP SERVICE FUSE     - OBSOLETE<br/>                 S.I. No 22.17.54                       - FOR REFERENCE ONLY</p>  |                  |   |   |  |                       |             |   |   |   |  |   |   |   |  |  |   |  |   |
| E  | <p>APPLICATION OF SERVICE FUSES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">NORMAL FUSE CARTRIDGE</th> <th style="width: 50%;">APPLICATION</th> </tr> </thead> <tbody> <tr> <td>30 AMP CARTRIDGE<br/>SIZE 57.0mm x 22.2mm DIA<br/>S.I. 22.23.90</td> <td>30 AMP OUTDOOR SERVICE FUSES ON ANY OLD SIZE STRAND CONSUMERS MAINS. REFER TO INSPECTOR/DISTRICT MECHANIC FOR FOLLOW UP INSPECTION.</td> </tr> <tr> <td>50 AMP CARTRIDGE<br/>SIZE 57.0mm x 22.2mm DIA<br/>S.I. 22.23.92</td> <td>OUTDOOR SERVICE FUSE FOR THE FOLLOWING SIZES OF CONSUMERS MAINS: 6mm<sup>2</sup>; 7/036. REFER TO INSPECTOR/DISTRICT MECHANIC FOR FOLLOW UP INSPECTION IF 50 AMP FUSE IS USED TO REPLACE A SMALLER FUSE.</td> </tr> <tr> <td>63 AMP CARTRIDGE<br/>SIZE 57.0mm x 22.2mm DIA<br/>S.I. 22.23.93</td> <td>OUTDOOR SERVICE FUSE ON RESIDENTIAL PREMISES WITH THE FOLLOWING SIZES OF COPPER CONSUMERS MAINS: (V75 UNENCLOSED)</td> </tr> <tr> <td>80 AMP CARTRIDGE<br/>SIZE 57.0mm x 22.2mm DIA<br/>S.I. 22.23.95</td> <td>10mm<sup>2</sup>, 7/044 &amp; 7/052 2 CORE<br/>16mm<sup>2</sup>, 7/064 &amp; 3 &amp; 4 CORE</td> </tr> <tr> <td>100 AMP CARTRIDGE<br/>SIZE 57.0mm x 22.2mm DIA<br/>S.I. 22.24.27</td> <td>16mm<sup>2</sup>, 7/064 2 CORE<br/>25mm<sup>2</sup>, 19/044, 19/052 3 &amp; 4 CORE</td> </tr> <tr> <td></td> <td>25mm<sup>2</sup>, 19/044, 19/052 2 CORE<br/>35mm<sup>2</sup>, 19/064, 3 &amp; 4 CORE</td> </tr> </tbody> </table> |                  |   |   |  | NORMAL FUSE CARTRIDGE | APPLICATION | 30 AMP CARTRIDGE<br>SIZE 57.0mm x 22.2mm DIA<br>S.I. 22.23.90 | 30 AMP OUTDOOR SERVICE FUSES ON ANY OLD SIZE STRAND CONSUMERS MAINS. REFER TO INSPECTOR/DISTRICT MECHANIC FOR FOLLOW UP INSPECTION. | 50 AMP CARTRIDGE<br>SIZE 57.0mm x 22.2mm DIA<br>S.I. 22.23.92 | OUTDOOR SERVICE FUSE FOR THE FOLLOWING SIZES OF CONSUMERS MAINS: 6mm <sup>2</sup> ; 7/036. REFER TO INSPECTOR/DISTRICT MECHANIC FOR FOLLOW UP INSPECTION IF 50 AMP FUSE IS USED TO REPLACE A SMALLER FUSE. | 63 AMP CARTRIDGE<br>SIZE 57.0mm x 22.2mm DIA<br>S.I. 22.23.93 | OUTDOOR SERVICE FUSE ON RESIDENTIAL PREMISES WITH THE FOLLOWING SIZES OF COPPER CONSUMERS MAINS: (V75 UNENCLOSED) | 80 AMP CARTRIDGE<br>SIZE 57.0mm x 22.2mm DIA<br>S.I. 22.23.95 | 10mm <sup>2</sup> , 7/044 & 7/052 2 CORE<br>16mm <sup>2</sup> , 7/064 & 3 & 4 CORE | 100 AMP CARTRIDGE<br>SIZE 57.0mm x 22.2mm DIA<br>S.I. 22.24.27 | 16mm <sup>2</sup> , 7/064 2 CORE<br>25mm <sup>2</sup> , 19/044, 19/052 3 & 4 CORE |  | 25mm <sup>2</sup> , 19/044, 19/052 2 CORE<br>35mm <sup>2</sup> , 19/064, 3 & 4 CORE |
| NORMAL FUSE CARTRIDGE  | APPLICATION   |                  |   |   |  |                       |             |   |   |   |  |   |   |   |  |  |   |  |   |
| 30 AMP CARTRIDGE<br>SIZE 57.0mm x 22.2mm DIA<br>S.I. 22.23.90  | 30 AMP OUTDOOR SERVICE FUSES ON ANY OLD SIZE STRAND CONSUMERS MAINS. REFER TO INSPECTOR/DISTRICT MECHANIC FOR FOLLOW UP INSPECTION.   |                  |   |   |  |                       |             |   |   |   |  |   |   |   |  |  |   |  |   |
| 50 AMP CARTRIDGE<br>SIZE 57.0mm x 22.2mm DIA<br>S.I. 22.23.92  | OUTDOOR SERVICE FUSE FOR THE FOLLOWING SIZES OF CONSUMERS MAINS: 6mm <sup>2</sup> ; 7/036. REFER TO INSPECTOR/DISTRICT MECHANIC FOR FOLLOW UP INSPECTION IF 50 AMP FUSE IS USED TO REPLACE A SMALLER FUSE.  |                  |   |   |  |                       |             |   |   |   |  |   |   |   |  |  |   |  |   |
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| 80 AMP CARTRIDGE<br>SIZE 57.0mm x 22.2mm DIA<br>S.I. 22.23.95  | 10mm <sup>2</sup> , 7/044 & 7/052 2 CORE<br>16mm <sup>2</sup> , 7/064 & 3 & 4 CORE  |                  |   |   |  |                       |             |   |   |   |  |   |   |   |  |  |   |  |   |
| 100 AMP CARTRIDGE<br>SIZE 57.0mm x 22.2mm DIA<br>S.I. 22.24.27 | 16mm <sup>2</sup> , 7/064 2 CORE<br>25mm <sup>2</sup> , 19/044, 19/052 3 & 4 CORE   |                  |   |   |  |                       |             |   |   |   |  |   |   |   |  |  |   |  |   |
|  | 25mm <sup>2</sup> , 19/044, 19/052 2 CORE<br>35mm <sup>2</sup> , 19/064, 3 & 4 CORE   |                  |   |   |  |                       |             |   |   |   |  |   |   |   |  |  |   |  |   |
| F  |   |                  |   |   |  |                       |             |   |   |   |  |   |   |   |  |  |   |  |   |
| G  |   |                  |   |   |  |                       |             |   |   |   |  |   |   |   |  |  |   |  |   |
| H  |   |                  |   |   |  |                       |             |   |   |   |  |   |   |   |  |  |   |  |   |
| ALTERNATIONS   | DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED   |                  |   |   |  |                       |             |   |   |   |  |   |   |   |  |  |   |  |   |
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|  | DRAWN   | CS PRO-SOLUTIONS | TITLE   |   | SCALE  |                       |             |   |   |   |  |   |   |   |  |  |   |  |   |
|  | DESIGNED BY   | ELECTRO          | O/H SERVICES & CONSUMER MAINS   |   | NTS  |                       |             |   |   |   |  |   |   |   |  |  |   |  |   |
|  | CHECKED BY  | H.WESTBURY       | SERVICE FUSEHOLDERS   |   | A4   |                       |             |   |   |   |  |   |   |   |  |  |   |  |   |
|  | APPROVED BY   | -                | SICAME - OBSOLETE   |   | REVISION   |                       |             |   |   |   |  |   |   |   |  |  |   |  |   |
|  | DATE APPROVED   | 15/APR/19        | D - OHC - A035 - SD - 002   |   | A  |                       |             |   |   |   |  |   |   |   |  |  |   |  |   |

### 1.6 Service Fuseholder (Obsolete)

|  | 1  | 2   | 3                | 4  | 5 |               |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |
|--|--|---|------------------|--|---|---------------|-----------------------|-------------|----------------|---|--|--|--|---|--|--|---|-----------------|--|---|-----------|--|--|----------|--|--|----------|--|--|----------|---|---|
| A  | <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p style="font-size: small;">OBSOLETE FITTING<br/>REPLACE ALL UNITS AT INSTALLATION<br/>WITH CURRENT SERVICE FUSE<br/>WHEN ATTENDING FAULT RESPONSE,<br/>MAINTENANCE OR SERVICE UPGRADES</p> </div> <p style="font-size: large; font-weight: bold;">- OBSOLETE<br/>- FOR REFERENCE<br/>ONLY</p>  |   |                  |  |   |               |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |
| B  |  |   |                  |  |   |               |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |
| C  | <p>PROPOSED APPLICATION OF SERVICE FUSES</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:15%;">FUSE FITTING</th> <th style="width:35%;">NORMAL FUSE CARTRIDGE</th> <th style="width:50%;">APPLICATION</th> </tr> </thead> <tbody> <tr> <td>STANGER 55 AMP</td> <td>5 AND 10 AMP CARTRIDGE<br/>SIZE 50.8mm x 14.3mm<br/>5A S.I. No 22.23.51<br/>10A S.I. No 22.23.52</td> <td>OUTDOOR FUSE ON MINOR ROADLANTERN BRACKETS, NO INTERNAL FUSE EXISTS.</td> </tr> <tr> <td>SEE NOTE ABOVE RE DE-RATING OF THIS FUSE</td> <td>30 AMP CARTRIDGE<br/>SIZE 50.8mm x 14.3mm DIA<br/>S.I. 22.23.60<br/>45 AMP CARTRIDGE<br/>S.I. 22.23.57</td> <td>TO REPLACE EXISTING 30 AMP OUTDOOR SERVICE FUSES ON ANY OLD SINGLE STRAND CONSUMER'S MAINS. REFER TO INSPECTOR/DISTRICT MECHANIC FOR FOLLOW UP INSTRUCTION.</td> </tr> <tr> <td></td> <td>50 AMP CARTRIDGE<br/>SIZE 50.8mm x 14.3mm DIA<br/>S.I. 22.23.61<br/><br/>45 AMP<br/>S.I. 22.23.57</td> <td>OUTDOOR SERVICE FUSE FOR THE FOLLOWING SIZES OF CONSUMERS MAINS:<br/>6mm<sup>2</sup>: 7/036. REFER TO THE INSPECTOR/DISTRICT MECHANIC FOR FOLLOW UP INSPECTION IF 50 AMP FUSE IS USED TO REPLACE A SMALLER FUSE.</td> </tr> <tr> <td>STANGER 100 AMP</td> <td></td> <td>OUTDOOR SERVICE FUSE ON RESIDENTIAL PREMISES WITH THE FOLLOWING SIZES OF COPPER CONSUMERS MAINS: (V75 UNENCLOSED)</td> </tr> <tr> <td>S.I. No's</td> <td></td> <td></td> </tr> <tr> <td>22.24.45</td> <td>63 AMP CARTRIDGE<br/>SIZE 76.2mm x 20.6mm DIA</td> <td>10mm<sup>2</sup>, 7/044 &amp; 7/052 2 CORE<br/>16mm<sup>2</sup>, 3 &amp; 4 CORE</td> </tr> <tr> <td>22.24.46</td> <td>80 AMP CARTRIDGE<br/>SIZE 76.2mm x 20.6mm DIA</td> <td>16mm<sup>2</sup>, 7/064 2 CORE<br/>25mm<sup>2</sup>, 3 &amp; 4 CORE</td> </tr> <tr> <td>22.24.47</td> <td>100 AMP CARTRIDGE<br/>SIZE 76.2mm x 20.6mm DIA</td> <td>25mm<sup>2</sup>, 19/044, 19/052 2 CORE<br/>35mm<sup>2</sup>, 3 &amp; 4 CORE</td> </tr> </tbody> </table> |   |                  |  |   | FUSE FITTING  | NORMAL FUSE CARTRIDGE | APPLICATION | STANGER 55 AMP | 5 AND 10 AMP CARTRIDGE<br>SIZE 50.8mm x 14.3mm<br>5A S.I. No 22.23.51<br>10A S.I. No 22.23.52 | OUTDOOR FUSE ON MINOR ROADLANTERN BRACKETS, NO INTERNAL FUSE EXISTS. | SEE NOTE ABOVE RE DE-RATING OF THIS FUSE | 30 AMP CARTRIDGE<br>SIZE 50.8mm x 14.3mm DIA<br>S.I. 22.23.60<br>45 AMP CARTRIDGE<br>S.I. 22.23.57 | TO REPLACE EXISTING 30 AMP OUTDOOR SERVICE FUSES ON ANY OLD SINGLE STRAND CONSUMER'S MAINS. REFER TO INSPECTOR/DISTRICT MECHANIC FOR FOLLOW UP INSTRUCTION. |  | 50 AMP CARTRIDGE<br>SIZE 50.8mm x 14.3mm DIA<br>S.I. 22.23.61<br><br>45 AMP<br>S.I. 22.23.57 | OUTDOOR SERVICE FUSE FOR THE FOLLOWING SIZES OF CONSUMERS MAINS:<br>6mm <sup>2</sup> : 7/036. REFER TO THE INSPECTOR/DISTRICT MECHANIC FOR FOLLOW UP INSPECTION IF 50 AMP FUSE IS USED TO REPLACE A SMALLER FUSE. | STANGER 100 AMP |  | OUTDOOR SERVICE FUSE ON RESIDENTIAL PREMISES WITH THE FOLLOWING SIZES OF COPPER CONSUMERS MAINS: (V75 UNENCLOSED) | S.I. No's |  |  | 22.24.45 | 63 AMP CARTRIDGE<br>SIZE 76.2mm x 20.6mm DIA | 10mm <sup>2</sup> , 7/044 & 7/052 2 CORE<br>16mm <sup>2</sup> , 3 & 4 CORE | 22.24.46 | 80 AMP CARTRIDGE<br>SIZE 76.2mm x 20.6mm DIA | 16mm <sup>2</sup> , 7/064 2 CORE<br>25mm <sup>2</sup> , 3 & 4 CORE | 22.24.47 | 100 AMP CARTRIDGE<br>SIZE 76.2mm x 20.6mm DIA | 25mm <sup>2</sup> , 19/044, 19/052 2 CORE<br>35mm <sup>2</sup> , 3 & 4 CORE |
| FUSE FITTING                             | NORMAL FUSE CARTRIDGE  | APPLICATION   |                  |  |   |               |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |
| STANGER 55 AMP                           | 5 AND 10 AMP CARTRIDGE<br>SIZE 50.8mm x 14.3mm<br>5A S.I. No 22.23.51<br>10A S.I. No 22.23.52  | OUTDOOR FUSE ON MINOR ROADLANTERN BRACKETS, NO INTERNAL FUSE EXISTS.  |                  |  |   |               |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |
| SEE NOTE ABOVE RE DE-RATING OF THIS FUSE | 30 AMP CARTRIDGE<br>SIZE 50.8mm x 14.3mm DIA<br>S.I. 22.23.60<br>45 AMP CARTRIDGE<br>S.I. 22.23.57   | TO REPLACE EXISTING 30 AMP OUTDOOR SERVICE FUSES ON ANY OLD SINGLE STRAND CONSUMER'S MAINS. REFER TO INSPECTOR/DISTRICT MECHANIC FOR FOLLOW UP INSTRUCTION.   |                  |  |   |               |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |
|  | 50 AMP CARTRIDGE<br>SIZE 50.8mm x 14.3mm DIA<br>S.I. 22.23.61<br><br>45 AMP<br>S.I. 22.23.57   | OUTDOOR SERVICE FUSE FOR THE FOLLOWING SIZES OF CONSUMERS MAINS:<br>6mm <sup>2</sup> : 7/036. REFER TO THE INSPECTOR/DISTRICT MECHANIC FOR FOLLOW UP INSPECTION IF 50 AMP FUSE IS USED TO REPLACE A SMALLER FUSE. |                  |  |   |               |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |
| STANGER 100 AMP                          |  | OUTDOOR SERVICE FUSE ON RESIDENTIAL PREMISES WITH THE FOLLOWING SIZES OF COPPER CONSUMERS MAINS: (V75 UNENCLOSED)   |                  |  |   |               |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |
| S.I. No's                                |  |   |                  |  |   |               |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |
| 22.24.45                                 | 63 AMP CARTRIDGE<br>SIZE 76.2mm x 20.6mm DIA   | 10mm <sup>2</sup> , 7/044 & 7/052 2 CORE<br>16mm <sup>2</sup> , 3 & 4 CORE  |                  |  |   |               |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |
| 22.24.46                                 | 80 AMP CARTRIDGE<br>SIZE 76.2mm x 20.6mm DIA   | 16mm <sup>2</sup> , 7/064 2 CORE<br>25mm <sup>2</sup> , 3 & 4 CORE  |                  |  |   |               |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |
| 22.24.47                                 | 100 AMP CARTRIDGE<br>SIZE 76.2mm x 20.6mm DIA  | 25mm <sup>2</sup> , 19/044, 19/052 2 CORE<br>35mm <sup>2</sup> , 3 & 4 CORE   |                  |  |   |               |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |
| D  |  |   |                  |  |   |               |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |
| E  |  |   |                  |  |   |               |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |
| F  |  |   |                  |  |   |               |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |
| G  |  |   |                  |  |   |               |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |
| H  | <p>NOTE<br/>THE AIM OF ADOPTING THE 100 AMP SERVICE FUSE AS THE BASIC OUTDOOR SERVICE FUSE FOR RESIDENTIAL PREMISES WAS (A) TO PROVIDE A ROBUST SERVICE FUSE FITTING WHICH WILL COPE WITH LOAD GROWTH AND (B) TO DE-RATE THE 55 AMP SERVICE FUSE FOR USE ON THE INSTALLATIONS WITH CONSUMER'S MAINS SIZES UP TO 6mm<sup>2</sup> OR 7/036 MAXIMUM, WHERE A 45 AMP FUSE CARTRIDGE SHOULD COPE.</p> <p style="text-align: right; font-size: small;">DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED</p>   |   |                  |  |   |               |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |
| ALTERATIONS                              | ORIGINAL ISSUE   |   |                  | <p>© Tasmanian Networks PTY. LTD.<br/>trading as TasNetworks<br/>ABN: 24 167 357 299</p> <p>NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS</p> |   |               |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |
|  |  | DRAWN   | C5 PRO-SOLUTIONS | <p>TITLE<br/>O/H SERVICES<br/>SERVICE FUSEHOLDERS<br/>STANGER - OBSOLETE</p>   |   |               |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |
|  |  | DESIGNED BY   | ELECTRO          |  |   | SCALE<br>NTS  |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |
|  |  | CHECKED BY  | H.WESTBURY       |  |   | A4            |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |
|  |  | APPROVED BY   | -                |  |   | REVISION<br>A |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |
|  |  | DATE APPROVED   | 15/APR/19        | D - OHC - A035 - SD - 003  |   |               |                       |             |                |   |  |  |  |   |  |  |   |                 |  |   |           |  |  |          |  |  |          |  |  |          |   |   |

### 1.7 Service Fuseholder (Obsolete)

|  | 1  | 2  | 3 | 4   | 5                |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
|--|--|--|---|---|------------------|-----------------------|-------------|---|---|---|---|---|---|--|---|--|--|--|--|
| A  |   |  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
| B  |   |  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
| C  |   |  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
| C  |   |  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
| D  |   |  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
| <p><b>OBsolete FITTING</b><br/>                 REPLACE ALL UNITS AT INSTALLATION WITH CURRENT SERVICE FUSE WHEN ATTENDING FAULT RESPONSE, MAINTENANCE OR SERVICE UPGRADES</p> <p><b>- OBSOLETE</b><br/> <b>- FOR REFERENCE ONLY</b></p>   |  |  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
| <p>APPLICATION OF SERVICE FUSES</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%;">NORMAL FUSE CARTRIDGE</th> <th style="width:50%;">APPLICATION</th> </tr> </thead> <tbody> <tr> <td>30 AMP CARTRIDGE<br/>SIZE 57.0mm x 22.2mm DIA<br/>S.I. 22.23.90</td> <td>30 AMP OUTDOOR SERVICE FUSES ON ANY OLD SIZE STRAND CONSUMERS MAINS. REFER TO INSPECTOR/DISTRICT MECHANIC FOR FOLLOW UP INSPECTION.</td> </tr> <tr> <td>50 AMP CARTRIDGE<br/>SIZE 57.0mm x 22.2mm DIA<br/>S.I. 22.23.92</td> <td>OUTDOOR SERVICE FUSE FOR THE FOLLOWING SIZES OF CONSUMERS MAINS: 6mm<sup>2</sup>; 7/.036. REFER TO INSPECTOR/DISTRICT MECHANIC FOR FOLLOW UP INSPECTION IF 50 AMP FUSE IS USED TO REPLACE A SMALLER FUSE.</td> </tr> <tr> <td>60 AMP CARTRIDGE<br/>SIZE 57.0mm x 22.2mm DIA<br/>S.I. 22.23.93</td> <td>OUTDOOR SERVICE FUSE ON RESIDENTIAL PREMISES WITH THE FOLLOWING SIZES OF COPPER CONSUMERS MAINS: (V75 UNENCLOSED)</td> </tr> <tr> <td>80 AMP CARTRIDGE<br/>SIZE 57.0mm x 22.2mm DIA<br/>S.I. 22.23.95</td> <td>10mm<sup>2</sup>, 7/.044 &amp; 7/.052 2 CORE<br/>16mm<sup>2</sup>, 7/.064 &amp; 3 &amp; 4 CORE</td> </tr> <tr> <td>100 AMP CARTRIDGE<br/>SIZE 57.0mm x 22.2mm DIA<br/>S.I. 22.24.27</td> <td>16mm<sup>2</sup>, 7/.064 2 CORE<br/>25mm<sup>2</sup>, 19/.044, 19/.052 3 &amp; 4 CORE</td> </tr> <tr> <td></td> <td>25mm<sup>2</sup>, 19/.044, 19/.052 2 CORE<br/>35mm<sup>2</sup>, 19/.064, 3 &amp; 4 CORE</td> </tr> </tbody> </table> |  |  |   |   |                  | NORMAL FUSE CARTRIDGE | APPLICATION | 30 AMP CARTRIDGE<br>SIZE 57.0mm x 22.2mm DIA<br>S.I. 22.23.90 | 30 AMP OUTDOOR SERVICE FUSES ON ANY OLD SIZE STRAND CONSUMERS MAINS. REFER TO INSPECTOR/DISTRICT MECHANIC FOR FOLLOW UP INSPECTION. | 50 AMP CARTRIDGE<br>SIZE 57.0mm x 22.2mm DIA<br>S.I. 22.23.92 | OUTDOOR SERVICE FUSE FOR THE FOLLOWING SIZES OF CONSUMERS MAINS: 6mm <sup>2</sup> ; 7/.036. REFER TO INSPECTOR/DISTRICT MECHANIC FOR FOLLOW UP INSPECTION IF 50 AMP FUSE IS USED TO REPLACE A SMALLER FUSE. | 60 AMP CARTRIDGE<br>SIZE 57.0mm x 22.2mm DIA<br>S.I. 22.23.93 | OUTDOOR SERVICE FUSE ON RESIDENTIAL PREMISES WITH THE FOLLOWING SIZES OF COPPER CONSUMERS MAINS: (V75 UNENCLOSED) | 80 AMP CARTRIDGE<br>SIZE 57.0mm x 22.2mm DIA<br>S.I. 22.23.95  | 10mm <sup>2</sup> , 7/.044 & 7/.052 2 CORE<br>16mm <sup>2</sup> , 7/.064 & 3 & 4 CORE | 100 AMP CARTRIDGE<br>SIZE 57.0mm x 22.2mm DIA<br>S.I. 22.24.27     | 16mm <sup>2</sup> , 7/.064 2 CORE<br>25mm <sup>2</sup> , 19/.044, 19/.052 3 & 4 CORE |  | 25mm <sup>2</sup> , 19/.044, 19/.052 2 CORE<br>35mm <sup>2</sup> , 19/.064, 3 & 4 CORE |
| NORMAL FUSE CARTRIDGE  | APPLICATION  |  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
| 30 AMP CARTRIDGE<br>SIZE 57.0mm x 22.2mm DIA<br>S.I. 22.23.90  | 30 AMP OUTDOOR SERVICE FUSES ON ANY OLD SIZE STRAND CONSUMERS MAINS. REFER TO INSPECTOR/DISTRICT MECHANIC FOR FOLLOW UP INSPECTION.  |  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
| 50 AMP CARTRIDGE<br>SIZE 57.0mm x 22.2mm DIA<br>S.I. 22.23.92  | OUTDOOR SERVICE FUSE FOR THE FOLLOWING SIZES OF CONSUMERS MAINS: 6mm <sup>2</sup> ; 7/.036. REFER TO INSPECTOR/DISTRICT MECHANIC FOR FOLLOW UP INSPECTION IF 50 AMP FUSE IS USED TO REPLACE A SMALLER FUSE.  |  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
| 60 AMP CARTRIDGE<br>SIZE 57.0mm x 22.2mm DIA<br>S.I. 22.23.93  | OUTDOOR SERVICE FUSE ON RESIDENTIAL PREMISES WITH THE FOLLOWING SIZES OF COPPER CONSUMERS MAINS: (V75 UNENCLOSED)  |  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
| 80 AMP CARTRIDGE<br>SIZE 57.0mm x 22.2mm DIA<br>S.I. 22.23.95  | 10mm <sup>2</sup> , 7/.044 & 7/.052 2 CORE<br>16mm <sup>2</sup> , 7/.064 & 3 & 4 CORE  |  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
| 100 AMP CARTRIDGE<br>SIZE 57.0mm x 22.2mm DIA<br>S.I. 22.24.27   | 16mm <sup>2</sup> , 7/.064 2 CORE<br>25mm <sup>2</sup> , 19/.044, 19/.052 3 & 4 CORE   |  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
|  | 25mm <sup>2</sup> , 19/.044, 19/.052 2 CORE<br>35mm <sup>2</sup> , 19/.064, 3 & 4 CORE   |  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
| E  |  |  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
| F  |  |  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
| G  |  |  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
| H  | <p>NOTE</p> <ol style="list-style-type: none"> <li>THE MORLYNN POWER 100 AMP SERVICE FUSE FITTING REPLACED THE STANGER 55 AMP AND 100 AMP SERVICE FUSE FITTING. MAINTAIN EXISTING 55 AMP FUSE AS SPARES FOR MINOR ROAD LANTERNS WHERE NO REWIREABLE FUSE EXISTS.</li> <li>USE M6 x 20L GALVANISED HEXAGONAL HEAD BOLT TO SECURE MOUNTING BRACKET TO SERVICE FUSE BRACKET OR PLATE AS REQUIRED.</li> </ol> <p style="text-align:right;">DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED</p> |  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
| ALTERATIONS  | ORIGINAL ISSUE   |   |   | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299 |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
|  |  | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">DRAWN</td> <td style="width:50%;">CS PRO-SOLUTIONS</td> </tr> <tr> <td>DESIGNED BY</td> <td>ELECTRO</td> </tr> <tr> <td>CHECKED BY</td> <td>H.WESTBURY</td> </tr> <tr> <td>APPROVED BY</td> <td>-</td> </tr> <tr> <td>DATE APPROVED</td> <td>16/APR/19</td> </tr> </table> |   | DRAWN   | CS PRO-SOLUTIONS | DESIGNED BY           | ELECTRO     | CHECKED BY  | H.WESTBURY  | APPROVED BY   | -   | DATE APPROVED   | 16/APR/19   | NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS |   | TITLE<br>O/H SERVICES<br>SERVICE FUSEHOLDERS<br>MORLYNN - OBSOLETE |  |  |  |
| DRAWN  | CS PRO-SOLUTIONS   |  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
| DESIGNED BY  | ELECTRO  |  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
| CHECKED BY   | H.WESTBURY   |  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
| APPROVED BY  | -  |  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
| DATE APPROVED  | 16/APR/19  |  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
|  |  |  |   | SCALE<br>NTS<br>A4  | REVISION<br>A    |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |
|  |  | D - OHC - A035 - SD - 004  |   |   |                  |                       |             |   |   |   |   |   |   |  |   |  |  |  |  |

## 1.8 IPC Installations with satellite connector

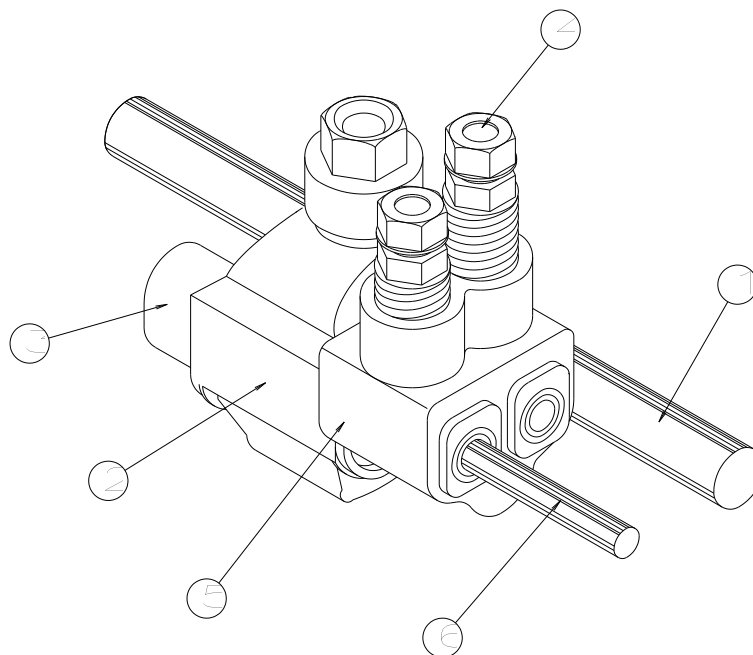
The satellite insulation piercing connector enables one or two service cables to be connected independently of the connection to the aerial bundled cable, that is, it allows for the removal and subsequent reinstatement of the service cable(s).

The satellite insulation piercing connectors should only be used for temporary supply connections and where multiple service connections are required on a pole, i.e. more than eight (8) service connectors.

### PROCEDURE FOR INSTALLATION

1. Insert the satellite connector into the mains connector such that the tail end of the satellite is contained in the grease filled end cap. Ensure that the tail end is located centrally on piercing teeth of the connector.
 

**NOTE:** The satellite connector **MUST** be used with mains connector S.I. 14.56.20.
2. Tighten the bolt of the connector until shear head releases. The mains and satellite connectors shall **NOT** be removed once installed
3. One or two service cables may be connected to the satellite connector. The insulation must **NOT** be stripped from the service conductors.
4. Use ratchet spanner D.I. 14.56.42 for tightening the bolt(s) on the satellite connector.
5. Service cable can be removed by untightening the appropriate bolt on the **SATELLITE** connector.



### LEGEND

1. Aerial bundled cable (LV ABC)
2. Insulation piercing connector (S.I. 14.56.20)
3. End cap filled with grease for sealing "satellite" insulation piercing connector.
4. Plastic shear head
5. Satellite insulation piercing connector (S.I. 14.56.37)
6. Service cable (Cable size 6-35mm<sup>2</sup>)



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# SECTION 2 – LV CONSTRUCTIONS



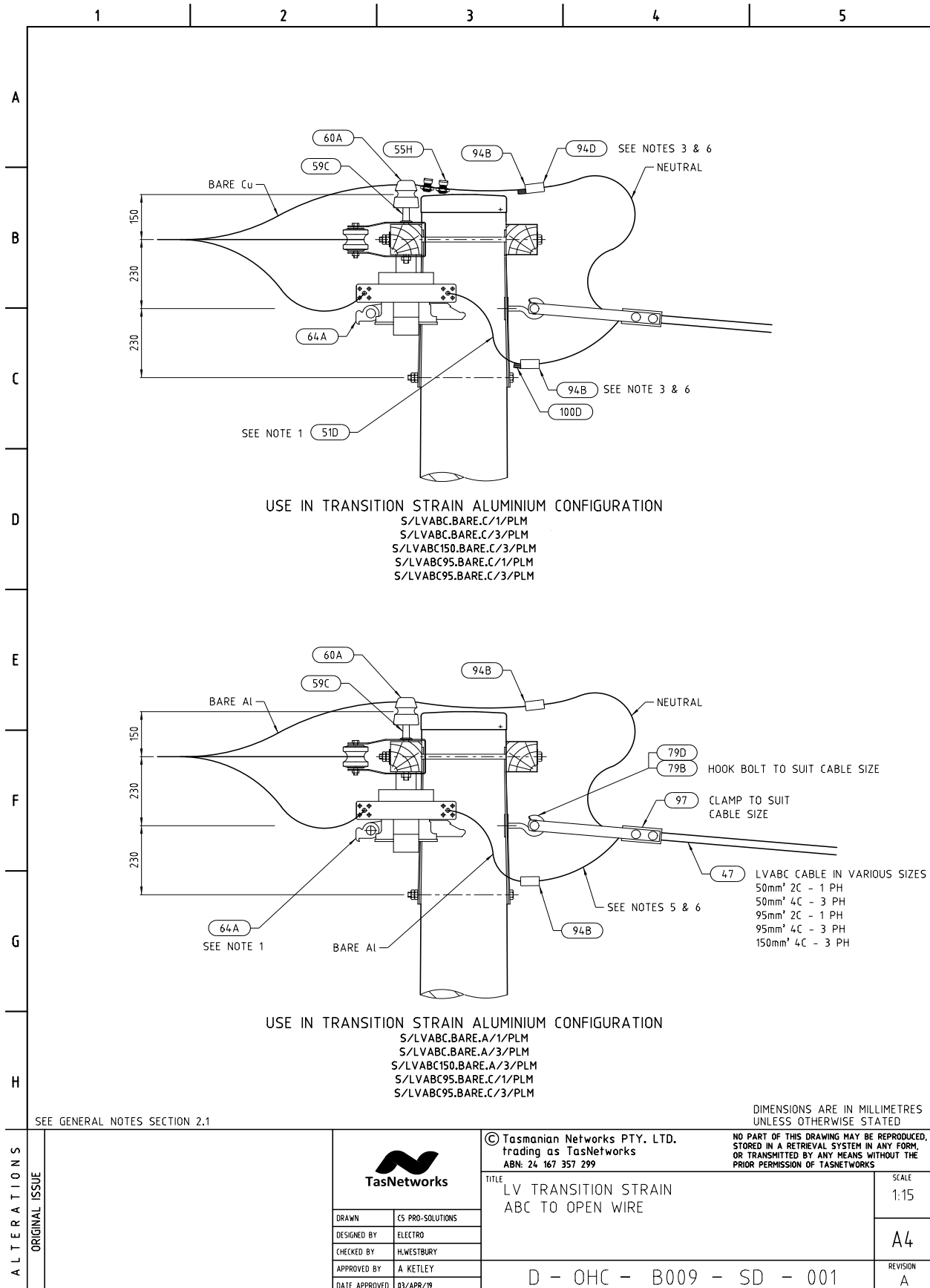


## 2 SECTION 2 – LV CONSTRUCTIONS

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# OBSOLETE CONSTRUCTIONS - REFERENCE ONLY


## 2.1 LV ABC Transition Strain (ABC to Open Wire)



LV ABC Transition Strain (ABC to Open Wire) - Materials List

|      |        | 1  | 2      | 3                                       | 4 | 5 |
|------|--------|--|--------|---|---|---|
| A    | S      | 59C                                      | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL   | 1 |   |
|      |        | 64A                                      | 236243 | SWITCHING GROUP,630A/660V X 1P CA MOUNT | 1 |   |
|      |        | 75D                                      | 32276  | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT  | 1 |   |
|      |        | 79B                                      | 325631 | EYE-BOLT,OPEN M16 X 350MM FIXED WASHER  | 1 |   |
|      |        | 94B                                      | 145630 | CONNECTOR,IPC LV ABC                    | 2 |   |
|      |        | 97B                                      | 145603 | CLAMP,TENSION 2 X 50MM2 - 2 X 95MM2 ABC | 1 |   |
|      |        | 60A                                      | 320756 | INSULATOR,PIN 660V LVLP PORCELAIN       | 1 |   |
|      |        | 100D                                     | 168017 | END CAP,HEAT SHRINK 17-8MM CABLE RANGE  | 2 |   |
|      |        | 59C                                      | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL   | 1 |   |
|      |        | 64A                                      | 236243 | SWITCHING GROUP,630A/660V X 1P CA MOUNT | 3 |   |
|      |        | 75D                                      | 32276  | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT  | 3 |   |
|      |        | 79B                                      | 325631 | EYE-BOLT,OPEN M16 X 350MM FIXED WASHER  | 1 |   |
|      |        | 94B                                      | 145630 | CONNECTOR,IPC LV ABC                    | 4 |   |
|      |        | 97A                                      | 145602 | CLAMP,TENSION 4 X 50MM2 ABC             | 1 |   |
|      |        | 60A                                      | 320756 | INSULATOR,PIN 660V LVLP PORCELAIN       | 1 |   |
|      |        | 100D                                     | 168017 | END CAP,HEAT SHRINK 17-8MM CABLE RANGE  | 4 |   |
|      |        | 59C                                      | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL   | 1 |   |
|      |        | 64A                                      | 236243 | SWITCHING GROUP,630A/660V X 1P CA MOUNT | 3 |   |
|      |        | 75D                                      | 32276  | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT  | 3 |   |
|      |        | 79B                                      | 325631 | EYE-BOLT,OPEN M16 X 350MM FIXED WASHER  | 1 |   |
| 94B  | 145630 | CONNECTOR,IPC LV ABC                     | 4      |   |   |   |
| 97A  | 145602 | CLAMP,TENSION 4 X 50MM2 ABC              | 1      |   |   |   |
| 60A  | 320756 | INSULATOR,PIN 660V LVLP PORCELAIN        | 1      |   |   |   |
| 100D | 168017 | END CAP,HEAT SHRINK 17-8MM CABLE RANGE   | 4      |   |   |   |
| 59C  | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL    | 1      |   |   |   |
| 64A  | 236243 | SWITCHING GROUP,630A/660V X 1P CA MOUNT  | 3      |   |   |   |
| 75D  | 32276  | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   | 3      |   |   |   |
| 79B  | TBA    | EYE-BOLT,OPEN M20 X 350MM FIXED WASHER   | 1      |   |   |   |
| 94B  | 145630 | CONNECTOR,IPC LV ABC                     | 4      |   |   |   |
| 97A  | 145602 | CLAMP,TENSION 4 X 50MM2 ABC              | 1      |   |   |   |
| 60A  | 320756 | INSULATOR,PIN 660V LVLP PORCELAIN        | 1      |   |   |   |
| 100D | 168017 | END CAP,HEAT SHRINK 17-8MM CABLE RANGE   | 4      |   |   |   |
| 59C  | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL    | 1      |   |   |   |
| 64A  | 236243 | SWITCHING GROUP,630A/660V X 1P CA MOUNT  | 3      |   |   |   |
| 75D  | 32276  | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   | 3      |   |   |   |
| 79D  | TBA    | EYE-BOLT,OPEN M20 X 350MM FIXED WASHER   | 1      |   |   |   |
| 94B  | 145630 | CONNECTOR,IPC LV ABC                     | 4      |   |   |   |
| 97A  | 145602 | CLAMP,TENSION 4 X 50MM2 ABC              | 1      |   |   |   |
| 60A  | 320756 | INSULATOR,PIN 660V LVLP PORCELAIN        | 1      |   |   |   |
| 100D | 168017 | END CAP,HEAT SHRINK 17-8MM CABLE RANGE   | 4      |   |   |   |
| 59C  | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL    | 1      |   |   |   |
| 64A  | 236243 | SWITCHING GROUP,630A/660V X 1P CA MOUNT  | 3      |   |   |   |
| 75D  | 32276  | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   | 3      |   |   |   |
| 79D  | TBA    | EYE-BOLT,OPEN M20 X 350MM FIXED WASHER   | 1      |   |   |   |
| 94B  | 145630 | CONNECTOR,IPC LV ABC                     | 4      |   |   |   |
| 97A  | 145602 | CLAMP,TENSION 4 X 95MM2 - 4 X 150MM2 ABC | 1      |   |   |   |
| 60A  | 320756 | INSULATOR,PIN 660V LVLP PORCELAIN        | 1      |   |   |   |
| 100D | 168017 | END CAP,HEAT SHRINK 17-8MM CABLE RANGE   | 4      |   |   |   |
| 55H  | 146856 | CONNECTOR,CLAMP C SPLIT BOLT 70MM2 MAX   | 2      |   |   |   |
| 59C  | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL    | 1      |   |   |   |
| 64A  | 236243 | SWITCHING GROUP,630A/660V X 1P CA MOUNT  | 3      |   |   |   |
| 75D  | 32276  | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   | 3      |   |   |   |
| 79B  | 325631 | EYE-BOLT,OPEN M16 X 350MM FIXED WASHER   | 1      |   |   |   |
| 94C  | 145620 | CONNECTOR,IPC LV ABC                     | 3      |   |   |   |
| 94D  | 145619 | CONNECTOR,IPC LV ABC                     | 1      |   |   |   |
| 97A  | 145602 | CLAMP,TENSION 4 X 50MM2 ABC              | 1      |   |   |   |
| 51D  | 103217 | CABLE,1CORE X 16MM2 X 7/1.70 X 0.6/1 V75 | 1      |   |   |   |
| 60A  | 320756 | INSULATOR,PIN 660V LVLP PORCELAIN        | 1      |   |   |   |
| 100D | 168017 | END CAP,HEAT SHRINK 17-8MM CABLE RANGE   | 2      |   |   |   |
| 55H  | 146856 | CONNECTOR,CLAMP C SPLIT BOLT 70MM2 MAX   | 2      |   |   |   |
| 59C  | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL    | 1      |   |   |   |
| 64A  | 236243 | SWITCHING GROUP,630A/660V X 1P CA MOUNT  | 3      |   |   |   |
| 75D  | 32276  | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   | 3      |   |   |   |
| 79B  | 325631 | EYE-BOLT,OPEN M16 X 350MM FIXED WASHER   | 1      |   |   |   |
| 94C  | 145620 | CONNECTOR,IPC LV ABC                     | 3      |   |   |   |
| 94D  | 145619 | CONNECTOR,IPC LV ABC                     | 1      |   |   |   |
| 97A  | 145602 | CLAMP,TENSION 4 X 50MM2 ABC              | 1      |   |   |   |
| 51D  | 103217 | CABLE,1CORE X 16MM2 X 7/1.70 X 0.6/1 V75 | 1      |   |   |   |
| 60A  | 320756 | INSULATOR,PIN 660V LVLP PORCELAIN        | 1      |   |   |   |
| 100D | 168017 | END CAP,HEAT SHRINK 17-8MM CABLE RANGE   | 4      |   |   |   |
| 55H  | 146856 | CONNECTOR,CLAMP C SPLIT BOLT 70MM2 MAX   | 2      |   |   |   |
| 59C  | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL    | 1      |   |   |   |
| 64A  | 236243 | SWITCHING GROUP,630A/660V X 1P CA MOUNT  | 3      |   |   |   |
| 75D  | 32276  | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   | 3      |   |   |   |
| 79D  | TBA    | EYE-BOLT,OPEN M20 X 350MM FIXED WASHER   | 1      |   |   |   |
| 94C  | 145620 | CONNECTOR,IPC LV ABC                     | 3      |   |   |   |
| 94D  | 145619 | CONNECTOR,IPC LV ABC                     | 1      |   |   |   |
| 97G  | 145607 | CLAMP,TENSION 4 X 95MM2 - 4 X 150MM2 ABC | 1      |   |   |   |
| 51D  | 103217 | CABLE,1CORE X 16MM2 X 7/1.70 X 0.6/1 V75 | 1      |   |   |   |
| 60A  | 320756 | INSULATOR,PIN 660V LVLP PORCELAIN        | 1      |   |   |   |
| 100D | 168017 | END CAP,HEAT SHRINK 17-8MM CABLE RANGE   | 4      |   |   |   |
| 55H  | 146856 | CONNECTOR,CLAMP C SPLIT BOLT 70MM2 MAX   | 2      |   |   |   |
| 59C  | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL    | 1      |   |   |   |
| 64A  | 236243 | SWITCHING GROUP,630A/660V X 1P CA MOUNT  | 3      |   |   |   |
| 75D  | 32276  | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   | 3      |   |   |   |
| 79D  | TBA    | EYE-BOLT,OPEN M20 X 350MM FIXED WASHER   | 1      |   |   |   |
| 94C  | 145620 | CONNECTOR,IPC LV ABC                     | 3      |   |   |   |
| 94D  | 145619 | CONNECTOR,IPC LV ABC                     | 1      |   |   |   |
| 97G  | 145607 | CLAMP,TENSION 4 X 95MM2 - 4 X 150MM2 ABC | 1      |   |   |   |
| 51D  | 103217 | CABLE,1CORE X 16MM2 X 7/1.70 X 0.6/1 V75 | 1      |   |   |   |
| 60A  | 320756 | INSULATOR,PIN 660V LVLP PORCELAIN        | 1      |   |   |   |
| 100D | 168017 | END CAP,HEAT SHRINK 17-8MM CABLE RANGE   | 4      |   |   |   |

ALTERATIONS  
ORIGINAL ISSUE



|               |                  |
|---------------|------------------|
| DRAWN         | CS PRO-SOLUTIONS |
| DESIGNED BY   | ELECTRO          |
| CHECKED BY    | H.WESTBURY       |
| APPROVED BY   | A KETLEY         |
| DATE APPROVED | 03/APR/19        |

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TITLE  
LV TRANSITION STRAIN  
ABC TO OPEN WIRE  
MATERIAL LIST

D - OHC - B009 - SD - 002

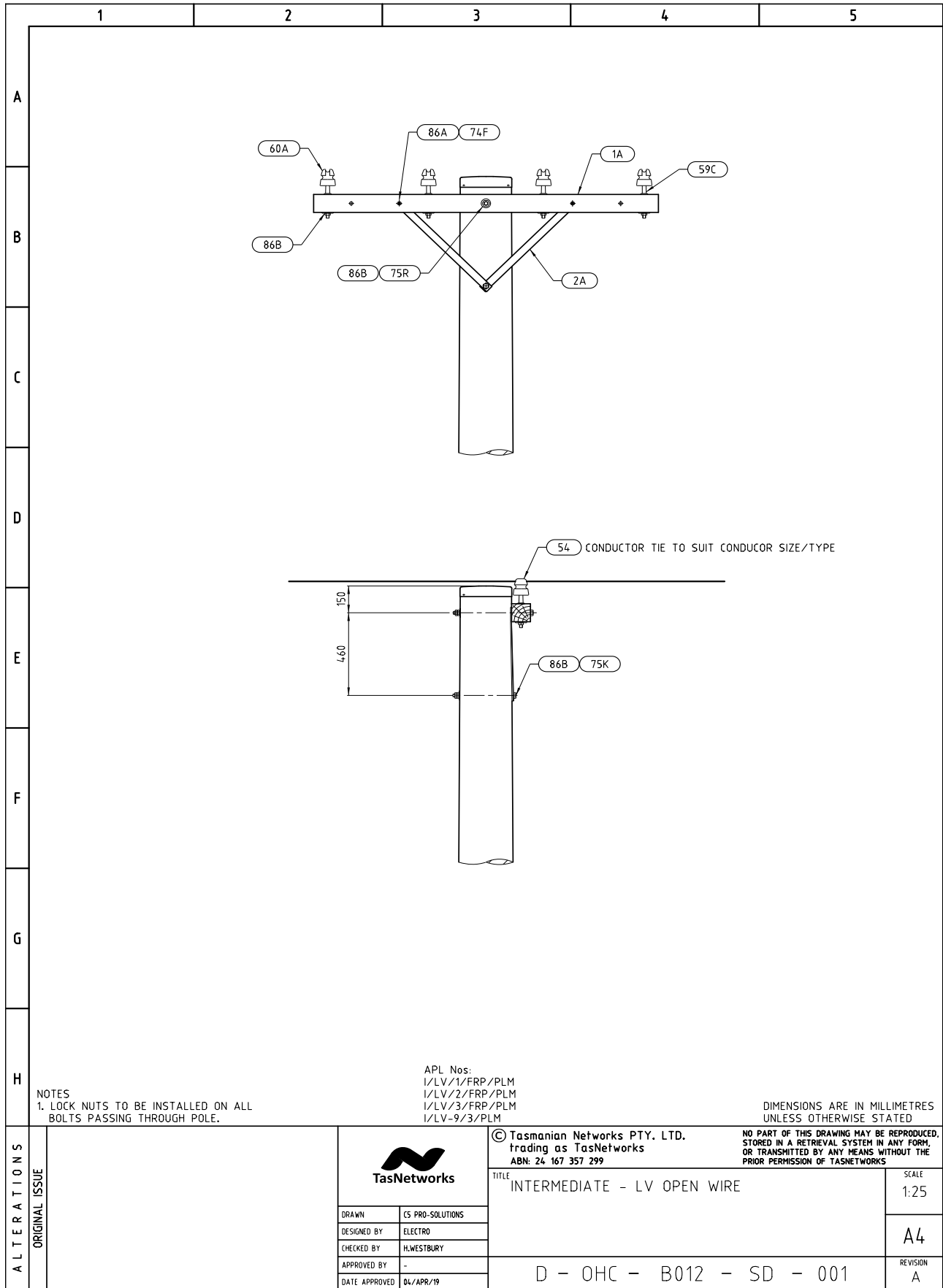
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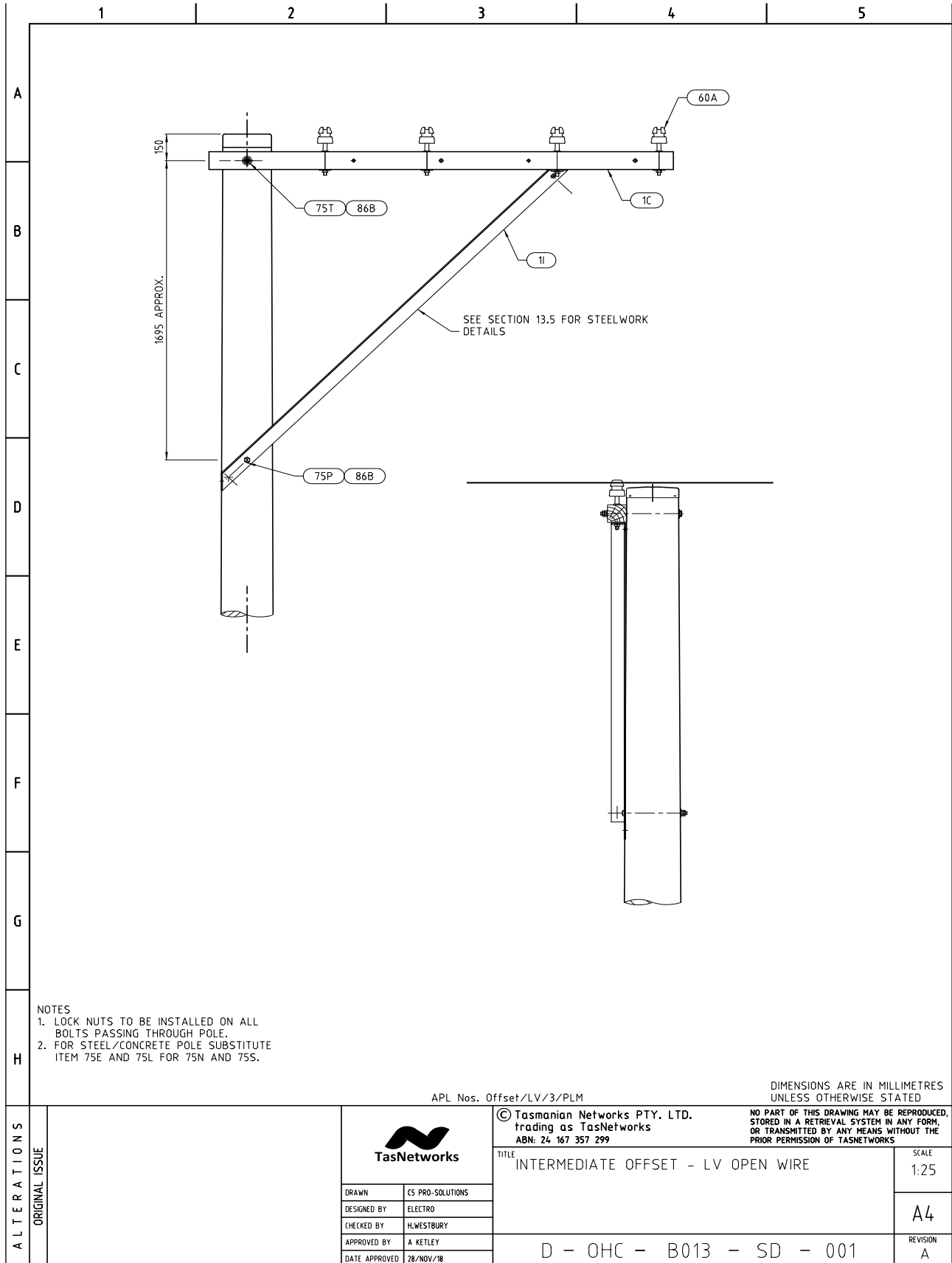
## 2.2 Intermediate LV Open Wire




Intermediate - LV Open Wire - Materials List

|  |                               | 1  |            | 2  |            | 3   |          | 4   |  | 5  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|--|-------------------------------|--|------------|--|------------|---|----------|---|--|--|--|---------------|------------|----------|------------|------------------------|----------|---------------|---|-----|-------|--------------------|---|-----|-------|--------------------|---|-----|-------|--------------------|---|-----|-------|---------------|---|-----|-------|---------------|---|-----|--------|------------------|---|-----|--------|------------------|---|----|--------|---------------------|---|---------------|---|----|--------|---|---|-----|-------|--------------------|---|-----|-------|--------------------|---|-----|-------|--------------------|---|-----|-------|---------------|---|-----|-------|---------------|---|-----|--------|------------------|---|-----|--------|------------------|---|---------------|---|----|--------|---|---|----|--------|---------------------|---|-----|-------|--------------------|---|-----|-------|--------------------|---|-----|-------|--------------------|---|-----|-------|---------------|---|-----|-------|---------------|---|-----|--------|------------------|---|--------------|---|-----|--------|------------------|---|----|--------|---|---|----|--------|---------------------|---|-----|-------|--------------------|---|-----|-------|--------------------|---|-----|-------|--------------------|---|-----|-------|---------------|---|-----|-------|---------------|---|--|--|-----|--------|------------------|---|-----|--------|------------------|---|----|--------|---|---|----|--------|---------------------|---|
| A<br><br>B<br><br>C<br><br>D<br><br>E<br><br>F<br><br>G<br><br>H | ALTERATIONS<br>ORIGINAL ISSUE | <table border="1"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Stock Item Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td rowspan="8">I/LV1/FRP/PLM</td> <td rowspan="8">S</td> <td>74F</td> <td>32224</td> <td>Bolt Hex M12 X 130</td> <td>2</td> </tr> <tr> <td>75K</td> <td>32285</td> <td>Bolt Hex M16 X 280</td> <td>1</td> </tr> <tr> <td>75R</td> <td>32291</td> <td>Bolt Hex M16 X 425</td> <td>1</td> </tr> <tr> <td>86A</td> <td>65157</td> <td>Washer Els 12</td> <td>2</td> </tr> <tr> <td>86B</td> <td>65158</td> <td>Washer Els 16</td> <td>2</td> </tr> <tr> <td>60A</td> <td>320756</td> <td>Insulator Pin LV</td> <td>2</td> </tr> <tr> <td>59C</td> <td>322723</td> <td>Pin,Insulator LV</td> <td>2</td> </tr> <tr> <td>2A</td> <td>323314</td> <td>Crossarm Strap Mk14</td> <td>1</td> </tr> <tr> <td rowspan="8">I/LV2/FRP/PLM</td> <td rowspan="8">S</td> <td>1A</td> <td>323215</td> <td>Crossarm Fibre Reinforced Plastic 100x100x1830 long</td> <td>1</td> </tr> <tr> <td>74F</td> <td>32224</td> <td>Bolt Hex M12 X 130</td> <td>2</td> </tr> <tr> <td>75K</td> <td>32285</td> <td>Bolt Hex M16 X 280</td> <td>1</td> </tr> <tr> <td>75R</td> <td>32291</td> <td>Bolt Hex M16 X 425</td> <td>1</td> </tr> <tr> <td>86A</td> <td>65157</td> <td>Washer Els 12</td> <td>2</td> </tr> <tr> <td>86B</td> <td>65158</td> <td>Washer Els 16</td> <td>2</td> </tr> <tr> <td>60A</td> <td>320756</td> <td>Insulator Pin LV</td> <td>3</td> </tr> <tr> <td>59C</td> <td>322723</td> <td>Pin,Insulator LV</td> <td>3</td> </tr> <tr> <td rowspan="8">I/LV3/FRP/PLM</td> <td rowspan="8">S</td> <td>1A</td> <td>323215</td> <td>Crossarm Fibre Reinforced Plastic 100x100x1830 long</td> <td>1</td> </tr> <tr> <td>2A</td> <td>323314</td> <td>Crossarm Strap Mk14</td> <td>2</td> </tr> <tr> <td>74F</td> <td>32224</td> <td>Bolt Hex M12 X 130</td> <td>2</td> </tr> <tr> <td>75K</td> <td>32285</td> <td>Bolt Hex M16 X 280</td> <td>1</td> </tr> <tr> <td>75R</td> <td>32291</td> <td>Bolt Hex M16 X 425</td> <td>1</td> </tr> <tr> <td>86A</td> <td>65157</td> <td>Washer Els 12</td> <td>2</td> </tr> <tr> <td>86B</td> <td>65158</td> <td>Washer Els 16</td> <td>2</td> </tr> <tr> <td>60A</td> <td>320756</td> <td>Insulator Pin LV</td> <td>4</td> </tr> <tr> <td rowspan="8">I/LV-9/3/PLM</td> <td rowspan="8">S</td> <td>59C</td> <td>322723</td> <td>Pin,Insulator LV</td> <td>4</td> </tr> <tr> <td>1A</td> <td>323215</td> <td>Crossarm Fibre Reinforced Plastic 100x100x1830 long</td> <td>1</td> </tr> <tr> <td>2A</td> <td>323314</td> <td>Crossarm Strap Mk14</td> <td>2</td> </tr> <tr> <td>74F</td> <td>32224</td> <td>Bolt Hex M12 X 130</td> <td>2</td> </tr> <tr> <td>75K</td> <td>32285</td> <td>Bolt Hex M16 X 280</td> <td>1</td> </tr> <tr> <td>75R</td> <td>32291</td> <td>Bolt Hex M16 X 425</td> <td>1</td> </tr> <tr> <td>86A</td> <td>65157</td> <td>Washer Els 12</td> <td>2</td> </tr> <tr> <td>86B</td> <td>65158</td> <td>Washer Els 16</td> <td>2</td> </tr> <tr> <td rowspan="8"></td> <td rowspan="8"></td> <td>60A</td> <td>320756</td> <td>Insulator Pin LV</td> <td>4</td> </tr> <tr> <td>59C</td> <td>322723</td> <td>Pin,Insulator LV</td> <td>4</td> </tr> <tr> <td>1C</td> <td>323212</td> <td>Crossarm Treated Wood Mk3 Dressed 100x100x2750 long</td> <td>1</td> </tr> <tr> <td>2A</td> <td>323314</td> <td>Crossarm Strap Mk14</td> <td>2</td> </tr> </tbody> </table> |            |  |            |   |          |   |  |  |  | Unit Assembly | Store Type | Item Ref | Stock Item | Stock Item Description | Quantity | I/LV1/FRP/PLM | S | 74F | 32224 | Bolt Hex M12 X 130 | 2 | 75K | 32285 | Bolt Hex M16 X 280 | 1 | 75R | 32291 | Bolt Hex M16 X 425 | 1 | 86A | 65157 | Washer Els 12 | 2 | 86B | 65158 | Washer Els 16 | 2 | 60A | 320756 | Insulator Pin LV | 2 | 59C | 322723 | Pin,Insulator LV | 2 | 2A | 323314 | Crossarm Strap Mk14 | 1 | I/LV2/FRP/PLM | S | 1A | 323215 | Crossarm Fibre Reinforced Plastic 100x100x1830 long | 1 | 74F | 32224 | Bolt Hex M12 X 130 | 2 | 75K | 32285 | Bolt Hex M16 X 280 | 1 | 75R | 32291 | Bolt Hex M16 X 425 | 1 | 86A | 65157 | Washer Els 12 | 2 | 86B | 65158 | Washer Els 16 | 2 | 60A | 320756 | Insulator Pin LV | 3 | 59C | 322723 | Pin,Insulator LV | 3 | I/LV3/FRP/PLM | S | 1A | 323215 | Crossarm Fibre Reinforced Plastic 100x100x1830 long | 1 | 2A | 323314 | Crossarm Strap Mk14 | 2 | 74F | 32224 | Bolt Hex M12 X 130 | 2 | 75K | 32285 | Bolt Hex M16 X 280 | 1 | 75R | 32291 | Bolt Hex M16 X 425 | 1 | 86A | 65157 | Washer Els 12 | 2 | 86B | 65158 | Washer Els 16 | 2 | 60A | 320756 | Insulator Pin LV | 4 | I/LV-9/3/PLM | S | 59C | 322723 | Pin,Insulator LV | 4 | 1A | 323215 | Crossarm Fibre Reinforced Plastic 100x100x1830 long | 1 | 2A | 323314 | Crossarm Strap Mk14 | 2 | 74F | 32224 | Bolt Hex M12 X 130 | 2 | 75K | 32285 | Bolt Hex M16 X 280 | 1 | 75R | 32291 | Bolt Hex M16 X 425 | 1 | 86A | 65157 | Washer Els 12 | 2 | 86B | 65158 | Washer Els 16 | 2 |  |  | 60A | 320756 | Insulator Pin LV | 4 | 59C | 322723 | Pin,Insulator LV | 4 | 1C | 323212 | Crossarm Treated Wood Mk3 Dressed 100x100x2750 long | 1 | 2A | 323314 | Crossarm Strap Mk14 | 2 |
|  |                               | Unit Assembly  | Store Type | Item Ref   | Stock Item | Stock Item Description  | Quantity |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               | I/LV1/FRP/PLM  | S          | 74F  | 32224      | Bolt Hex M12 X 130  | 2        |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               |  |            | 75K  | 32285      | Bolt Hex M16 X 280  | 1        |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               |  |            | 75R  | 32291      | Bolt Hex M16 X 425  | 1        |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               |  |            | 86A  | 65157      | Washer Els 12   | 2        |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               |  |            | 86B  | 65158      | Washer Els 16   | 2        |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               |  |            | 60A  | 320756     | Insulator Pin LV  | 2        |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               |  |            | 59C  | 322723     | Pin,Insulator LV  | 2        |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               |  |            | 2A   | 323314     | Crossarm Strap Mk14   | 1        |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               | I/LV2/FRP/PLM  | S          | 1A   | 323215     | Crossarm Fibre Reinforced Plastic 100x100x1830 long                             | 1        |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               |  |            | 74F  | 32224      | Bolt Hex M12 X 130  | 2        |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               |  |            | 75K  | 32285      | Bolt Hex M16 X 280  | 1        |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               |  |            | 75R  | 32291      | Bolt Hex M16 X 425  | 1        |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               |  |            | 86A  | 65157      | Washer Els 12   | 2        |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               |  |            | 86B  | 65158      | Washer Els 16   | 2        |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               |  |            | 60A  | 320756     | Insulator Pin LV  | 3        |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               |  |            | 59C  | 322723     | Pin,Insulator LV  | 3        |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               | I/LV3/FRP/PLM  | S          | 1A   | 323215     | Crossarm Fibre Reinforced Plastic 100x100x1830 long                             | 1        |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               |  |            | 2A   | 323314     | Crossarm Strap Mk14   | 2        |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               |  |            | 74F  | 32224      | Bolt Hex M12 X 130  | 2        |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               |  |            | 75K  | 32285      | Bolt Hex M16 X 280  | 1        |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               |  |            | 75R  | 32291      | Bolt Hex M16 X 425  | 1        |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               |  |            | 86A  | 65157      | Washer Els 12   | 2        |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
| 86B  | 65158                         |  |            | Washer Els 16  | 2          |   |          |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
| 60A  | 320756                        |  |            | Insulator Pin LV   | 4          |   |          |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
| I/LV-9/3/PLM   | S                             | 59C  | 322723     | Pin,Insulator LV   | 4          |   |          |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               | 1A   | 323215     | Crossarm Fibre Reinforced Plastic 100x100x1830 long  | 1          |   |          |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               | 2A   | 323314     | Crossarm Strap Mk14  | 2          |   |          |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               | 74F  | 32224      | Bolt Hex M12 X 130   | 2          |   |          |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               | 75K  | 32285      | Bolt Hex M16 X 280   | 1          |   |          |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               | 75R  | 32291      | Bolt Hex M16 X 425   | 1          |   |          |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               | 86A  | 65157      | Washer Els 12  | 2          |   |          |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               | 86B  | 65158      | Washer Els 16  | 2          |   |          |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               | 60A  | 320756     | Insulator Pin LV   | 4          |   |          |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               | 59C  | 322723     | Pin,Insulator LV   | 4          |   |          |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               | 1C   | 323212     | Crossarm Treated Wood Mk3 Dressed 100x100x2750 long  | 1          |   |          |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               | 2A   | 323314     | Crossarm Strap Mk14  | 2          |   |          |   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               |  |            |                                 |            | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299 |          | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNETWORKS |  | TITLE<br>INTERMEDIATE - LV OPEN WIRE<br>MATERIALS LIST |  | SCALE<br>NTS  |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |
|  |                               |  |            | DRAWN CS PRO-SOLUTIONS<br>DESIGNED BY ELECTRO<br>CHECKED BY H.WESTBURY<br>APPROVED BY -<br>DATE APPROVED 04/APR/19 |            | D - OHC - B012 - SD - 002   |          | REVISION<br>A   |  |  |  |               |            |          |            |                        |          |               |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |    |        |                     |   |               |   |    |        |   |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |     |        |                  |   |               |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |     |        |                  |   |              |   |     |        |                  |   |    |        |   |   |    |        |                     |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |               |   |     |       |               |   |  |  |     |        |                  |   |     |        |                  |   |    |        |   |   |    |        |                     |   |

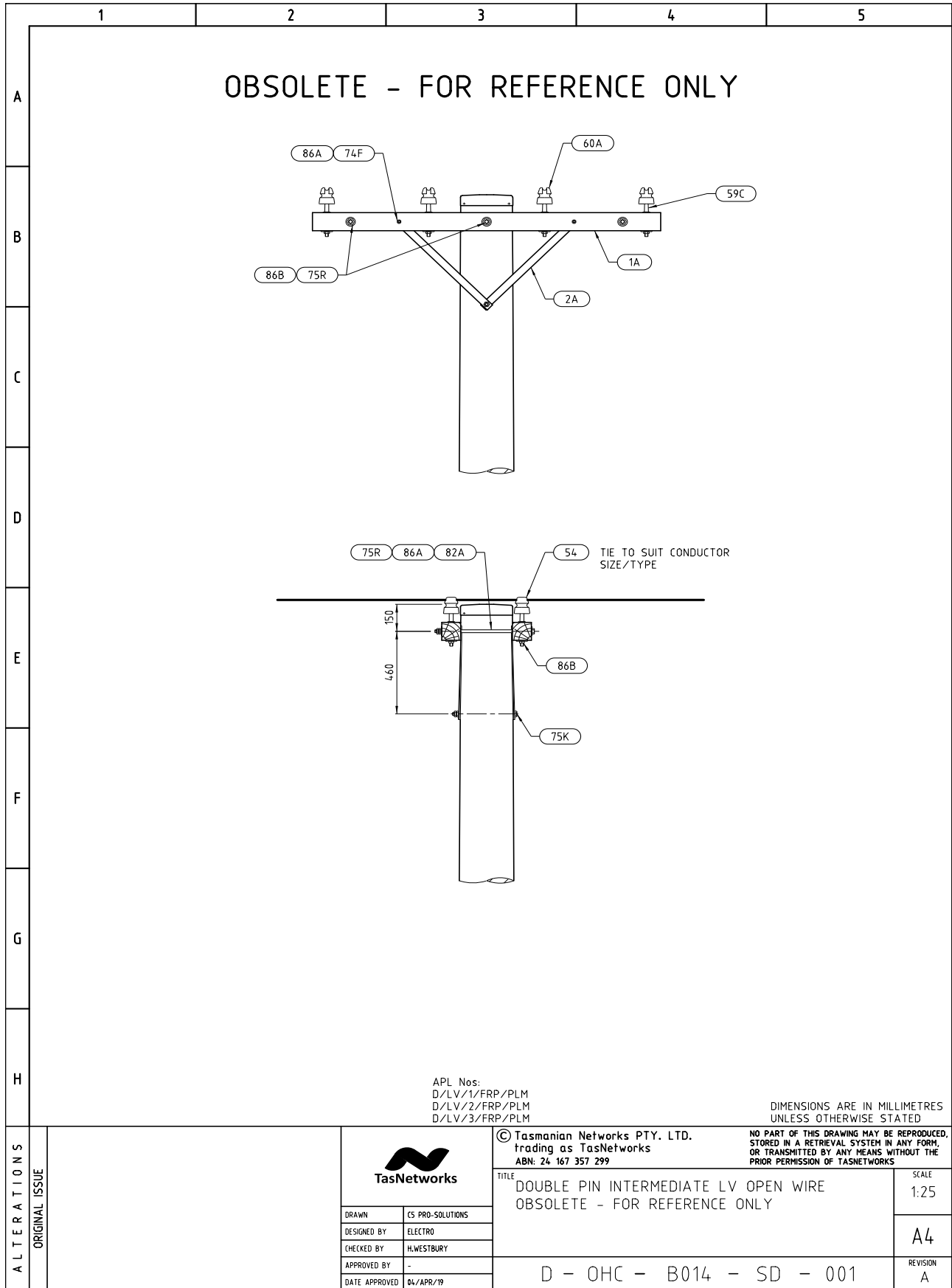
### 2.3 Intermediate Offset LV Open Wire



Intermediate Offset LV Open Wire - Materials List


|                 | 1   | 2  | 3   | 4   | 5             |               |            |          |            |                        |          |                 |   |    |        |                                   |   |    |        |                           |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |                                  |   |     |        |                                   |   |
|-----------------|---|--|---|---|---------------|---------------|------------|----------|------------|------------------------|----------|-----------------|---|----|--------|-----------------------------------|---|----|--------|---------------------------|---|-----|--------|---------------------------------------|---|-----|-------|--|---|-----|-------|--|---|-----|-------|----------------------------------|---|-----|--------|-----------------------------------|---|
| A               |   |  |   |   |               |               |            |          |            |                        |          |                 |   |    |        |                                   |   |    |        |                           |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |                                  |   |     |        |                                   |   |
| B               |   |  |   |   |               |               |            |          |            |                        |          |                 |   |    |        |                                   |   |    |        |                           |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |                                  |   |     |        |                                   |   |
| C               | <table border="1"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Stock Item Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td rowspan="7">Offset/LV/3/PLM</td> <td rowspan="7">S</td> <td>1C</td> <td>323212</td> <td>CROSSARM,OFFSET LV 75X75X6X2560MM</td> <td>1</td> </tr> <tr> <td>1I</td> <td>323415</td> <td>Strut, LV Offset Crossarm</td> <td>1</td> </tr> <tr> <td>59C</td> <td>322723</td> <td>PIN,INSULATOR 16MM DIA X LV GAL STEEL</td> <td>4</td> </tr> <tr> <td>75P</td> <td>32289</td> <td>BOLT,HEX HEAD M16 X 375MM GAL. C/W NUT</td> <td>1</td> </tr> <tr> <td>75T</td> <td>32293</td> <td>BOLT,HEX HEAD M16 X 475MM GAL. C/W NUT</td> <td>1</td> </tr> <tr> <td>86B</td> <td>65158</td> <td>WASHER,FLAT ROUND M16 X 50MM GAL</td> <td>2</td> </tr> <tr> <td>60A</td> <td>320756</td> <td>INSULATOR,PIN 660V LVLP PORCELAIN</td> <td>4</td> </tr> </tbody> </table> |  |   |   |               | Unit Assembly | Store Type | Item Ref | Stock Item | Stock Item Description | Quantity | Offset/LV/3/PLM | S | 1C | 323212 | CROSSARM,OFFSET LV 75X75X6X2560MM | 1 | 1I | 323415 | Strut, LV Offset Crossarm | 1 | 59C | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL | 4 | 75P | 32289 | BOLT,HEX HEAD M16 X 375MM GAL. C/W NUT | 1 | 75T | 32293 | BOLT,HEX HEAD M16 X 475MM GAL. C/W NUT | 1 | 86B | 65158 | WASHER,FLAT ROUND M16 X 50MM GAL | 2 | 60A | 320756 | INSULATOR,PIN 660V LVLP PORCELAIN | 4 |
| Unit Assembly   | Store Type  | Item Ref   | Stock Item  | Stock Item Description  | Quantity      |               |            |          |            |                        |          |                 |   |    |        |                                   |   |    |        |                           |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |                                  |   |     |        |                                   |   |
| Offset/LV/3/PLM | S   | 1C   | 323212  | CROSSARM,OFFSET LV 75X75X6X2560MM   | 1             |               |            |          |            |                        |          |                 |   |    |        |                                   |   |    |        |                           |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |                                  |   |     |        |                                   |   |
|                 |   | 1I   | 323415  | Strut, LV Offset Crossarm   | 1             |               |            |          |            |                        |          |                 |   |    |        |                                   |   |    |        |                           |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |                                  |   |     |        |                                   |   |
|                 |   | 59C  | 322723  | PIN,INSULATOR 16MM DIA X LV GAL STEEL   | 4             |               |            |          |            |                        |          |                 |   |    |        |                                   |   |    |        |                           |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |                                  |   |     |        |                                   |   |
|                 |   | 75P  | 32289   | BOLT,HEX HEAD M16 X 375MM GAL. C/W NUT  | 1             |               |            |          |            |                        |          |                 |   |    |        |                                   |   |    |        |                           |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |                                  |   |     |        |                                   |   |
|                 |   | 75T  | 32293   | BOLT,HEX HEAD M16 X 475MM GAL. C/W NUT  | 1             |               |            |          |            |                        |          |                 |   |    |        |                                   |   |    |        |                           |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |                                  |   |     |        |                                   |   |
|                 |   | 86B  | 65158   | WASHER,FLAT ROUND M16 X 50MM GAL  | 2             |               |            |          |            |                        |          |                 |   |    |        |                                   |   |    |        |                           |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |                                  |   |     |        |                                   |   |
|                 |   | 60A  | 320756  | INSULATOR,PIN 660V LVLP PORCELAIN   | 4             |               |            |          |            |                        |          |                 |   |    |        |                                   |   |    |        |                           |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |                                  |   |     |        |                                   |   |
| D               |   |  |   |   |               |               |            |          |            |                        |          |                 |   |    |        |                                   |   |    |        |                           |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |                                  |   |     |        |                                   |   |
| E               |   |  |   |   |               |               |            |          |            |                        |          |                 |   |    |        |                                   |   |    |        |                           |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |                                  |   |     |        |                                   |   |
| F               |   |  |   |   |               |               |            |          |            |                        |          |                 |   |    |        |                                   |   |    |        |                           |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |                                  |   |     |        |                                   |   |
| G               |   |  |   |   |               |               |            |          |            |                        |          |                 |   |    |        |                                   |   |    |        |                           |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |                                  |   |     |        |                                   |   |
| H               |   |  |   |   |               |               |            |          |            |                        |          |                 |   |    |        |                                   |   |    |        |                           |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |                                  |   |     |        |                                   |   |
| ALTERATIONS     | ORIGINAL ISSUE  |   |   | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299 |               |               |            |          |            |                        |          |                 |   |    |        |                                   |   |    |        |                           |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |                                  |   |     |        |                                   |   |
|                 |   | DRAWN CS PRO-SOLUTIONS<br>DESIGNED BY ELECTRO<br>CHECKED BY H.WESTBURY<br>APPROVED BY A. KETLEY<br>DATE APPROVED 04/APR/19 | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNETWORKS |   | SCALE<br>NTS  |               |            |          |            |                        |          |                 |   |    |        |                                   |   |    |        |                           |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |                                  |   |     |        |                                   |   |
|                 |   |  | TITLE<br>INTERMEDIATE OFFSET - LV OPEN WIRE<br>MATERIAL LIST  |   | A4            |               |            |          |            |                        |          |                 |   |    |        |                                   |   |    |        |                           |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |                                  |   |     |        |                                   |   |
|                 |   |  | D - OHC - B013 - SD - 002   |   | REVISION<br>A |               |            |          |            |                        |          |                 |   |    |        |                                   |   |    |        |                           |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |                                  |   |     |        |                                   |   |

### 2.4 Double Pin Intermediate LV Open Wire (Obsolete)

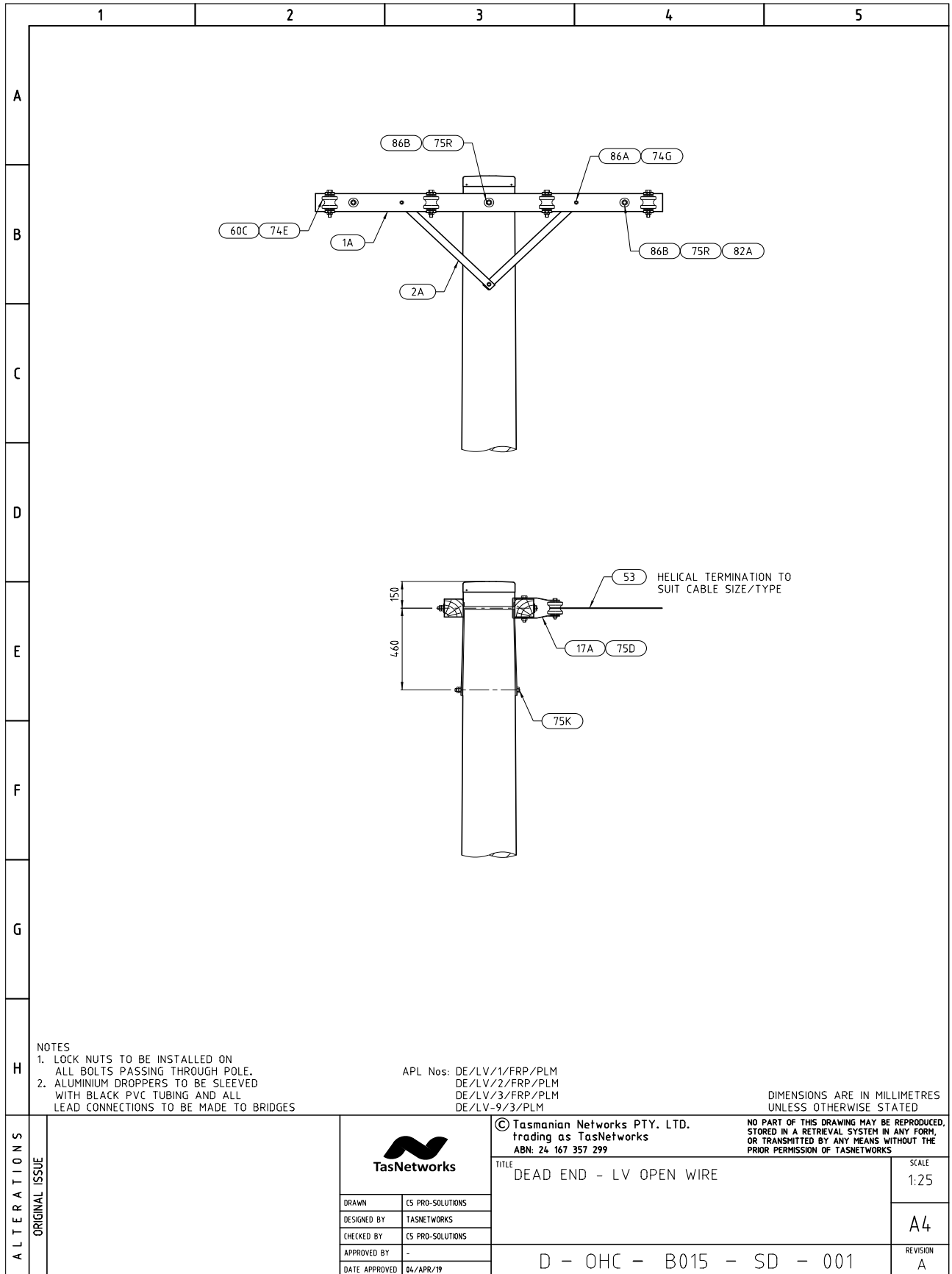




Double Pin Intermediate LV - Materials List (Obsolete)

|               |                                      |  |       |   |             |   |            |            |             |          |               |           |   |
|---------------|--------------------------------------|--|-------|---|-------------|---|------------|------------|-------------|----------|---------------|-----------|---|
|               |                                      | 1  | 2     | 3   | 4           | 5   |            |            |             |          |               |           |   |
| A             | <b>OBSOLETE - FOR REFERENCE ONLY</b> |  |       |   |             |   |            |            |             |          |               |           |   |
| B             |                                      |  |       |   |             |   |            |            |             |          |               |           |   |
| C             |                                      |  |       |   |             |   |            |            |             |          |               |           |   |
| D             |                                      |  |       |   |             |   |            |            |             |          |               |           |   |
| E             |                                      |  |       |   |             |   |            |            |             |          |               |           |   |
| F             |                                      |  |       |   |             |   |            |            |             |          |               |           |   |
| G             |                                      |  |       |   |             |   |            |            |             |          |               |           |   |
| H             |                                      |  |       |   |             |   |            |            |             |          |               |           |   |
| ALTERATIONS   | ORIGINAL ISSUE                       |   |       | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299 |             | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNETWORKS |            |            |             |          |               |           |   |
|               |                                      | <table border="1"> <tr> <td>DRAWN</td> <td>CS PRO-SOLUTIONS</td> </tr> <tr> <td>DESIGNED BY</td> <td>ELECTRO</td> </tr> <tr> <td>CHECKED BY</td> <td>HLWESTBURY</td> </tr> <tr> <td>APPROVED BY</td> <td>A KETLEY</td> </tr> <tr> <td>DATE APPROVED</td> <td>04/APR/19</td> </tr> </table> | DRAWN | CS PRO-SOLUTIONS  | DESIGNED BY | ELECTRO   | CHECKED BY | HLWESTBURY | APPROVED BY | A KETLEY | DATE APPROVED | 04/APR/19 | TITLE<br>DOUBLE PIN INTERMEDIATE LV OPEN WIRE<br>MATERIAL LIST<br>OBSOLETE - FOR REFERENCE ONLY |
| DRAWN         | CS PRO-SOLUTIONS                     |  |       |   |             |   |            |            |             |          |               |           |   |
| DESIGNED BY   | ELECTRO                              |  |       |   |             |   |            |            |             |          |               |           |   |
| CHECKED BY    | HLWESTBURY                           |  |       |   |             |   |            |            |             |          |               |           |   |
| APPROVED BY   | A KETLEY                             |  |       |   |             |   |            |            |             |          |               |           |   |
| DATE APPROVED | 04/APR/19                            |  |       |   |             |   |            |            |             |          |               |           |   |
|               |                                      |  |       | D - OHC - B014 - SD - 002   |             | REVISION<br>A   |            |            |             |          |               |           |   |


## 2.5 Dead End LV Open Wire



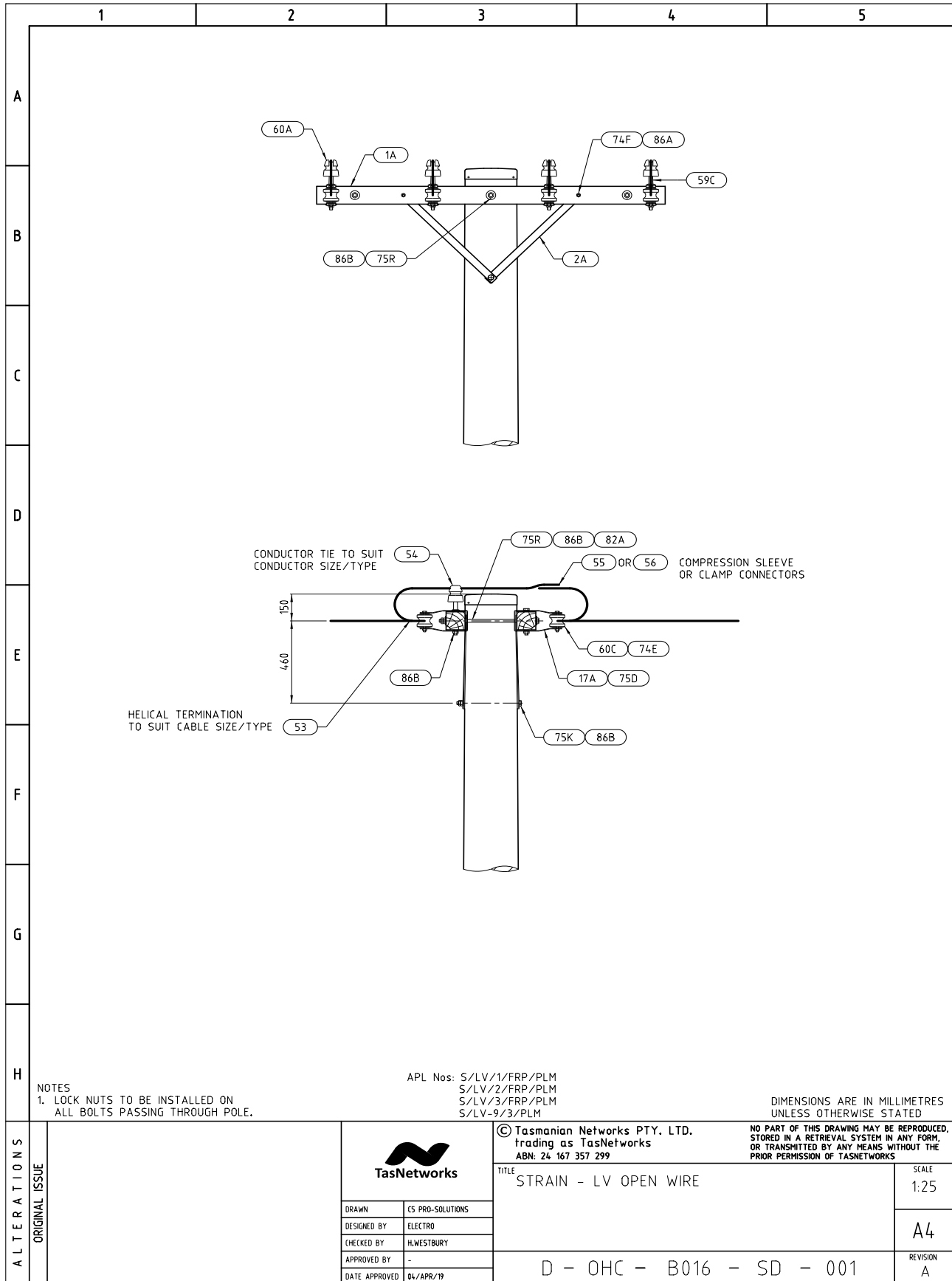
Dead End LV Open Wire – Materials List

|                                      |                                      | 1                                       | 2  | 3               | 4      | 5  |        |  |        |  |   |
|--------------------------------------|--------------------------------------|---|----|-----------------|--------|--|--------|--|--------|--|---|
| A<br>B<br>C<br>D<br>E<br>F<br>G<br>H | A<br>B<br>C<br>D<br>E<br>F<br>G<br>H | DE/LV/1/FRP/PLM                         | S  | 17A             | 323331 | BRACKET,INSULATOR 50X3X630MM F-STRAP     | 2      |  |        |  |   |
|                                      |                                      |   |    | 1A              | 323215 | CROSSARM,FIBREGLASS, 100X100X1830MM LONG | 2      |  |        |  |   |
|                                      |                                      |   |    | 60C             | 321117 | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN    | 2      |  |        |  |   |
|                                      |                                      |   |    | 74E             | 32223  | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT   | 2      |  |        |  |   |
|                                      |                                      |   |    | 74G             | 32225  | BOLT,HEX HEAD M12 X 140MM GAL. C/W NUT   | 4      |  |        |  |   |
|                                      |                                      |   |    | 75D             | 32276  | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   | 2      |  |        |  |   |
|                                      |                                      |   |    | 75K             | 32285  | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT   | 1      |  |        |  |   |
|                                      |                                      |   |    | 75T             | 32293  | BOLT,HEX HEAD M16 X 475MM GAL. C/W NUT   | 3      |  |        |  |   |
|                                      |                                      |   |    | 86A             | 65157  | WASHER,FLAT ROUND M12 X 37MM GAL         | 4      |  |        |  |   |
|                                      |                                      |   |    | 86B             | 65158  | WASHER,FLAT ROUND M16 X 50MM GAL         | 8      |  |        |  |   |
|                                      |                                      |   |    | 2A              | 323314 | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL  | 4      |  |        |  |   |
|                                      |                                      |   |    | DE/LV/2/FRP/PLM | S      | 17A                                      | 323331 | BRACKET,INSULATOR 50X3X630MM F-STRAP     | 3      |  |   |
|                                      |                                      |   |    |                 |        | 1A                                       | 323215 | CROSSARM,FIBREGLASS, 100X100X1830MM LONG | 2      |  |   |
|                                      |                                      |   |    |                 |        | 60C                                      | 321117 | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN    | 3      |  |   |
|                                      |                                      |   |    |                 |        | 74E                                      | 32223  | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT   | 3      |  |   |
|                                      |                                      |   |    |                 |        | 74G                                      | 32225  | BOLT,HEX HEAD M12 X 140MM GAL. C/W NUT   | 4      |  |   |
|                                      |                                      |   |    |                 |        | 75D                                      | 32276  | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   | 3      |  |   |
|                                      |                                      |   |    |                 |        | 75K                                      | 32285  | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT   | 1      |  |   |
|                                      |                                      |   |    |                 |        | 75T                                      | 32293  | BOLT,HEX HEAD M16 X 475MM GAL. C/W NUT   | 3      |  |   |
|                                      |                                      |   |    |                 |        | 86A                                      | 65157  | WASHER,FLAT ROUND M12 X 37MM GAL         | 4      |  |   |
|                                      |                                      |   |    |                 |        | 86B                                      | 65158  | WASHER,FLAT ROUND M16 X 50MM GAL         | 9      |  |   |
|                                      |                                      |   |    |                 |        | 2A                                       | 323314 | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL  | 4      |  |   |
|                                      |                                      |   |    |                 |        | DE/LV/3/FRP/PLM                          | S      | 17A                                      | 323331 | BRACKET,INSULATOR 50X3X630MM F-STRAP     | 4 |
|                                      |                                      |   |    |                 |        |  |        | 1A                                       | 323215 | CROSSARM,FIBREGLASS, 100X100X1830MM LONG | 2 |
|                                      |                                      |   |    |                 |        |  |        | 60C                                      | 321117 | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN    | 4 |
|                                      |                                      |   |    |                 |        |  |        | 74E                                      | 32223  | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT   | 4 |
|                                      |                                      |   |    |                 |        |  |        | 74G                                      | 32225  | BOLT,HEX HEAD M12 X 140MM GAL. C/W NUT   | 4 |
|                                      |                                      |   |    | 75D             | 32276  |  |        | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   | 4      |  |   |
|                                      |                                      |   |    | 75K             | 32285  |  |        | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT   | 1      |  |   |
|                                      |                                      |   |    | 75T             | 32293  |  |        | BOLT,HEX HEAD M16 X 475MM GAL. C/W NUT   | 3      |  |   |
|                                      |                                      |   |    | 86A             | 65157  |  |        | WASHER,FLAT ROUND M12 X 37MM GAL         | 4      |  |   |
|                                      |                                      |   |    | 86B             | 65158  |  |        | WASHER,FLAT ROUND M16 X 50MM GAL         | 10     |  |   |
|                                      |                                      |   |    | 2A              | 323314 |  |        | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL  | 4      |  |   |
|                                      |                                      |   |    | DE/LV-9/3/PLM   | S      |  |        | 17A                                      | 323331 | BRACKET,INSULATOR 50X3X630MM F-STRAP     | 4 |
|                                      |                                      |   |    |                 |        |  |        | 1C                                       | 323212 | CROSSARM,WOOD 100 X 100 X 2750MM LONG    | 2 |
|                                      |                                      |   |    |                 |        |  |        | 60C                                      | 321117 | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN    | 4 |
|                                      |                                      |   |    |                 |        |  |        | 74E                                      | 32223  | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT   | 4 |
|                                      |                                      |   |    |                 |        |  |        | 74G                                      | 32225  | BOLT,HEX HEAD M12 X 140MM GAL. C/W NUT   | 4 |
|                                      |                                      |   |    |                 |        | 75D                                      | 32276  | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   | 4      |  |   |
|                                      |                                      |   |    |                 |        | 75K                                      | 32285  | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT   | 1      |  |   |
| 75T                                  | 32293                                | BOLT,HEX HEAD M16 X 475MM GAL. C/W NUT  | 3  |                 |        |  |        |  |        |  |   |
| 86A                                  | 65157                                | WASHER,FLAT ROUND M12 X 37MM GAL        | 4  |                 |        |  |        |  |        |  |   |
| 86B                                  | 65158                                | WASHER,FLAT ROUND M16 X 50MM GAL        | 10 |                 |        |  |        |  |        |  |   |
| 2A                                   | 323314                               | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL | 4  |                 |        |  |        |  |        |  |   |


  

|                      |                           |   |   |   |   |
|----------------------|---------------------------|---|---|---|---|
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|                      |                           | DRAWN<br>DESIGNED BY<br>CHECKED BY<br>APPROVED BY<br>DATE APPROVED  | CS PRO-SOLUTIONS<br>ELECTRO<br>ELECTRO<br>A KETLEY<br>04/APR/19 | TITLE<br>DEAD END - LV OPEN WIRE<br>MATERIAL LIST                               | SCALE<br>NTS<br><br>A4  |
|                      |                           | D - OHC - B015 - SD - 002   |   |   | REVISION<br>A   |
|                      |                           |   |   |   |   |
|                      |                           |   |   |   |   |

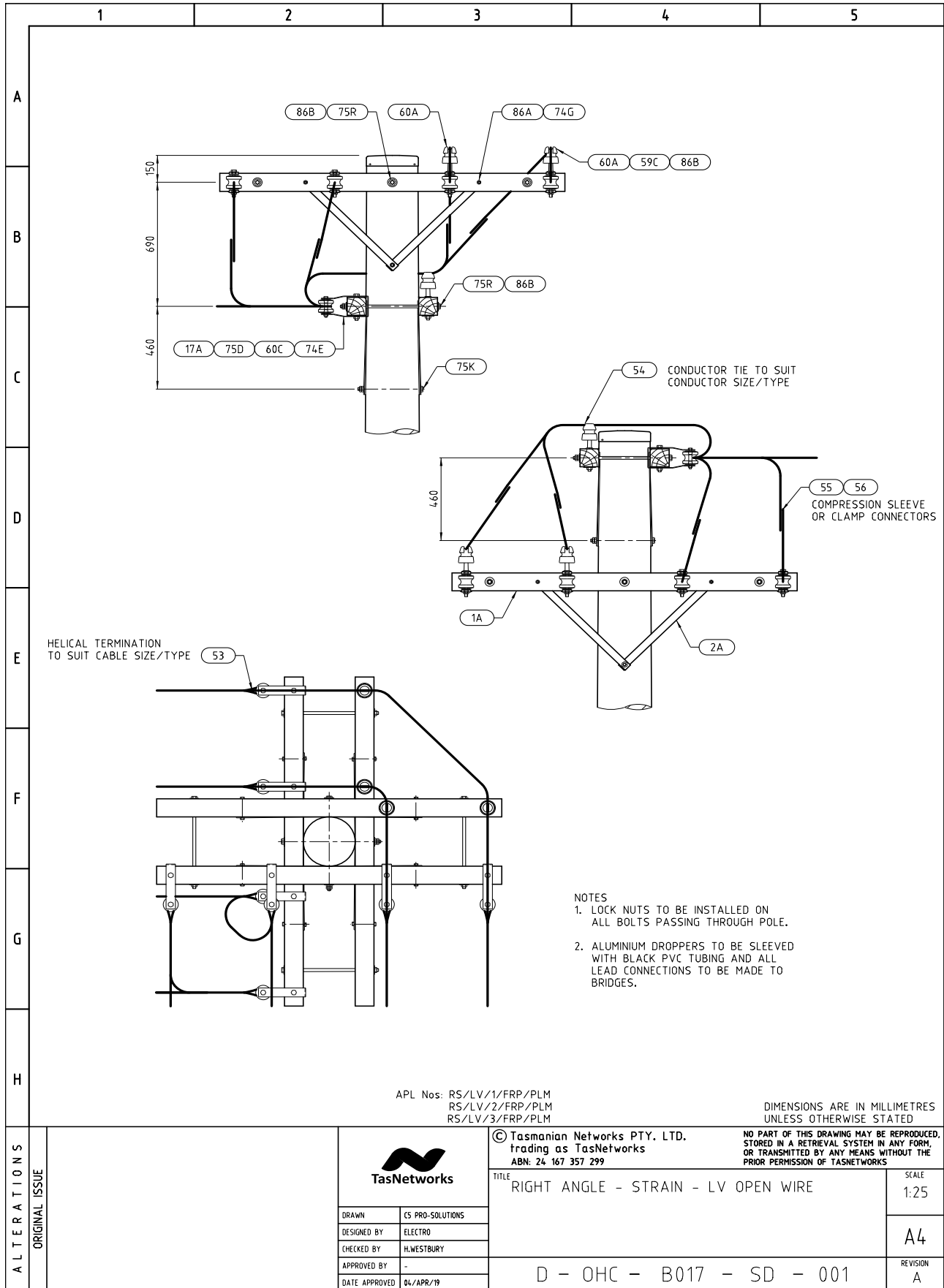
## 2.6 Strain LV Open Wire



Strain LV Open Wire - Materials List


|             |                | 1   | 2                | 3                         | 4          | 5  |               |   |        |  |   |
|-------------|----------------|---|------------------|---------------------------|------------|--|---------------|---|--------|--|---|
|             |                | Unit Assembly   | Store Type       | Item Ref                  | Stock Item | Stock Item Description                   | Quantity      |   |        |  |   |
| A           |                | S/LV1/FRP/PLM   | S                | 17A                       | 323331     | BRACKET,INSULATOR 50X3X630MM F-STRAP     | 4             |   |        |  |   |
|             |                |   |                  | 1A                        | 323215     | CROSSARM,FIBREGLASS, 100X100X1830MM LONG | 2             |   |        |  |   |
|             |                |   |                  | 59C                       | 322723     | PIN,INSULATOR 16MM DIA X LV GAL STEEL    | 2             |   |        |  |   |
|             |                |   |                  | 60C                       | 321117     | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN    | 4             |   |        |  |   |
|             |                |   |                  | 74E                       | 32223      | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT   | 4             |   |        |  |   |
|             |                |   |                  | 74F                       | 32224      | BOLT,HEX HEAD M12 X 130MM GAL. C/W NUT   | 4             |   |        |  |   |
|             |                |   |                  | 75D                       | 32276      | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   | 4             |   |        |  |   |
|             |                |   |                  | 75K                       | 32285      | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT   | 1             |   |        |  |   |
|             |                |   |                  | 75R                       | 32291      | BOLT,HEX HEAD M16 X 425MM GAL. C/W NUT   | 3             |   |        |  |   |
|             |                |   |                  | 82A                       | 40441      | NUT,HEX M16 THREAD GALANISED STEEL       | 4             |   |        |  |   |
|             |                |   |                  | 86A                       | 65157      | WASHER,FLAT ROUND M12 X 37MM GAL         | 4             |   |        |  |   |
|             |                |   |                  | 86B                       | 65158      | WASHER,FLAT ROUND M16 X 50MM GAL         | 10            |   |        |  |   |
|             |                |   |                  | 2A                        | 323314     | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL  | 4             |   |        |  |   |
|             |                |   |                  | 60A                       | 320756     | INSULATOR,PIN 660V LVLP PORCELAIN        | 2             |   |        |  |   |
|             |                |   |                  | B                         |            | S/LV2/FRP/PLM                            | S             | 17A   | 323331 | BRACKET,INSULATOR 50X3X630MM F-STRAP     | 6   |
|             |                |   |                  |                           |            |  |               | 1A  | 323215 | CROSSARM,FIBREGLASS, 100X100X1830MM LONG | 2   |
|             |                |   |                  |                           |            |  |               | 59C   | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL    | 3   |
| 60C         | 321117         | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN   | 6                |                           |            |  |               |   |        |  |   |
| 74E         | 32223          | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT  | 6                |                           |            |  |               |   |        |  |   |
| 74F         | 32224          | BOLT,HEX HEAD M12 X 130MM GAL. C/W NUT  | 4                |                           |            |  |               |   |        |  |   |
| 75D         | 32276          | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT  | 6                |                           |            |  |               |   |        |  |   |
| 75K         | 32285          | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT  | 1                |                           |            |  |               |   |        |  |   |
| 75R         | 32291          | BOLT,HEX HEAD M16 X 425MM GAL. C/W NUT  | 3                |                           |            |  |               |   |        |  |   |
| 82A         | 40441          | NUT,HEX M16 THREAD GALANISED STEEL  | 4                |                           |            |  |               |   |        |  |   |
| 86A         | 65157          | WASHER,FLAT ROUND M12 X 37MM GAL  | 4                |                           |            |  |               |   |        |  |   |
| 86B         | 65158          | WASHER,FLAT ROUND M16 X 50MM GAL  | 12               |                           |            |  |               |   |        |  |   |
| 2A          | 323314         | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL   | 4                |                           |            |  |               |   |        |  |   |
| 60A         | 320756         | INSULATOR,PIN 660V LVLP PORCELAIN   | 3                |                           |            |  |               |   |        |  |   |
| C           |                | S/LV3/FRP/PLM   | S                |                           |            |  |               | 17A   | 323331 | BRACKET,INSULATOR 50X3X630MM F-STRAP     | 8   |
|             |                |   |                  |                           |            |  |               | 1A  | 323215 | CROSSARM,FIBREGLASS, 100X100X1830MM LONG | 2   |
|             |                |   |                  |                           |            |  |               | 59C   | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL    | 4   |
|             |                |   |                  | 60C                       | 321117     | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN    | 8             |   |        |  |   |
|             |                |   |                  | 74E                       | 32223      | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT   | 8             |   |        |  |   |
|             |                |   |                  | 74F                       | 32224      | BOLT,HEX HEAD M12 X 130MM GAL. C/W NUT   | 4             |   |        |  |   |
|             |                |   |                  | 75D                       | 32276      | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   | 8             |   |        |  |   |
|             |                |   |                  | 75K                       | 32285      | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT   | 1             |   |        |  |   |
|             |                |   |                  | 75R                       | 32291      | BOLT,HEX HEAD M16 X 425MM GAL. C/W NUT   | 3             |   |        |  |   |
|             |                |   |                  | 82A                       | 40441      | NUT,HEX M16 THREAD GALANISED STEEL       | 4             |   |        |  |   |
|             |                |   |                  | 86A                       | 65157      | WASHER,FLAT ROUND M12 X 37MM GAL         | 4             |   |        |  |   |
|             |                |   |                  | 86B                       | 65158      | WASHER,FLAT ROUND M16 X 50MM GAL         | 14            |   |        |  |   |
|             |                |   |                  | 2A                        | 323314     | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL  | 4             |   |        |  |   |
|             |                |   |                  | 60A                       | 320756     | INSULATOR,PIN 660V LVLP PORCELAIN        | 4             |   |        |  |   |
|             |                |   |                  | D                         |            | S/LV9/3/PLM                              | S             | 17A   | 323331 | BRACKET,INSULATOR 50X3X630MM F-STRAP     | 8   |
|             |                |   |                  |                           |            |  |               | 1C  | 323212 | CROSSARM,WOOD 100 X 100 X 2750MM LONG    | 2   |
|             |                |   |                  |                           |            |  |               | 59C   | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL    | 4   |
| 60C         | 321117         | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN   | 8                |                           |            |  |               |   |        |  |   |
| 74E         | 32223          | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT  | 8                |                           |            |  |               |   |        |  |   |
| 74F         | 32224          | BOLT,HEX HEAD M12 X 130MM GAL. C/W NUT  | 4                |                           |            |  |               |   |        |  |   |
| 75D         | 32276          | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT  | 8                |                           |            |  |               |   |        |  |   |
| 75K         | 32285          | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT  | 1                |                           |            |  |               |   |        |  |   |
| 75R         | 32291          | BOLT,HEX HEAD M16 X 425MM GAL. C/W NUT  | 3                |                           |            |  |               |   |        |  |   |
| 82A         | 40441          | NUT,HEX M16 THREAD GALANISED STEEL  | 4                |                           |            |  |               |   |        |  |   |
| 86A         | 65157          | WASHER,FLAT ROUND M12 X 37MM GAL  | 4                |                           |            |  |               |   |        |  |   |
| 86B         | 65158          | WASHER,FLAT ROUND M16 X 50MM GAL  | 14               |                           |            |  |               |   |        |  |   |
| 2A          | 323314         | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL   | 4                |                           |            |  |               |   |        |  |   |
| 60A         | 320756         | INSULATOR,PIN 660V LVLP PORCELAIN   | 4                |                           |            |  |               |   |        |  |   |
| E           |                | S/LV3/FRP/PLM   | S                |                           |            |  |               | 17A   | 323331 | BRACKET,INSULATOR 50X3X630MM F-STRAP     | 8   |
|             |                |   |                  |                           |            |  |               | 1A  | 323215 | CROSSARM,FIBREGLASS, 100X100X1830MM LONG | 2   |
|             |                |   |                  |                           |            |  |               | 59C   | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL    | 4   |
|             |                |   |                  | 60C                       | 321117     | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN    | 8             |   |        |  |   |
|             |                |   |                  | 74E                       | 32223      | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT   | 8             |   |        |  |   |
|             |                |   |                  | 74F                       | 32224      | BOLT,HEX HEAD M12 X 130MM GAL. C/W NUT   | 4             |   |        |  |   |
|             |                |   |                  | 75D                       | 32276      | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   | 8             |   |        |  |   |
|             |                |   |                  | 75K                       | 32285      | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT   | 1             |   |        |  |   |
|             |                |   |                  | 75R                       | 32291      | BOLT,HEX HEAD M16 X 425MM GAL. C/W NUT   | 3             |   |        |  |   |
|             |                |   |                  | 82A                       | 40441      | NUT,HEX M16 THREAD GALANISED STEEL       | 4             |   |        |  |   |
|             |                |   |                  | 86A                       | 65157      | WASHER,FLAT ROUND M12 X 37MM GAL         | 4             |   |        |  |   |
|             |                |   |                  | 86B                       | 65158      | WASHER,FLAT ROUND M16 X 50MM GAL         | 14            |   |        |  |   |
|             |                |   |                  | 2A                        | 323314     | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL  | 4             |   |        |  |   |
|             |                |   |                  | 60A                       | 320756     | INSULATOR,PIN 660V LVLP PORCELAIN        | 4             |   |        |  |   |
|             |                |   |                  | F                         |            | S/LV3/FRP/PLM                            | S             | 17A   | 323331 | BRACKET,INSULATOR 50X3X630MM F-STRAP     | 8   |
|             |                |   |                  |                           |            |  |               | 1A  | 323215 | CROSSARM,FIBREGLASS, 100X100X1830MM LONG | 2   |
|             |                |   |                  |                           |            |  |               | 59C   | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL    | 4   |
| 60C         | 321117         | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN   | 8                |                           |            |  |               |   |        |  |   |
| 74E         | 32223          | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT  | 8                |                           |            |  |               |   |        |  |   |
| 74F         | 32224          | BOLT,HEX HEAD M12 X 130MM GAL. C/W NUT  | 4                |                           |            |  |               |   |        |  |   |
| 75D         | 32276          | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT  | 8                |                           |            |  |               |   |        |  |   |
| 75K         | 32285          | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT  | 1                |                           |            |  |               |   |        |  |   |
| 75R         | 32291          | BOLT,HEX HEAD M16 X 425MM GAL. C/W NUT  | 3                |                           |            |  |               |   |        |  |   |
| 82A         | 40441          | NUT,HEX M16 THREAD GALANISED STEEL  | 4                |                           |            |  |               |   |        |  |   |
| 86A         | 65157          | WASHER,FLAT ROUND M12 X 37MM GAL  | 4                |                           |            |  |               |   |        |  |   |
| 86B         | 65158          | WASHER,FLAT ROUND M16 X 50MM GAL  | 14               |                           |            |  |               |   |        |  |   |
| 2A          | 323314         | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL   | 4                |                           |            |  |               |   |        |  |   |
| 60A         | 320756         | INSULATOR,PIN 660V LVLP PORCELAIN   | 4                |                           |            |  |               |   |        |  |   |
| G           |                | S/LV9/3/PLM   | S                |                           |            |  |               | 17A   | 323331 | BRACKET,INSULATOR 50X3X630MM F-STRAP     | 8   |
|             |                |   |                  |                           |            |  |               | 1C  | 323212 | CROSSARM,WOOD 100 X 100 X 2750MM LONG    | 2   |
|             |                |   |                  |                           |            |  |               | 59C   | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL    | 4   |
|             |                |   |                  | 60C                       | 321117     | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN    | 8             |   |        |  |   |
|             |                |   |                  | 74E                       | 32223      | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT   | 8             |   |        |  |   |
|             |                |   |                  | 74F                       | 32224      | BOLT,HEX HEAD M12 X 130MM GAL. C/W NUT   | 4             |   |        |  |   |
|             |                |   |                  | 75D                       | 32276      | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   | 8             |   |        |  |   |
|             |                |   |                  | 75K                       | 32285      | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT   | 1             |   |        |  |   |
|             |                |   |                  | 75R                       | 32291      | BOLT,HEX HEAD M16 X 425MM GAL. C/W NUT   | 3             |   |        |  |   |
|             |                |   |                  | 82A                       | 40441      | NUT,HEX M16 THREAD GALANISED STEEL       | 4             |   |        |  |   |
|             |                |   |                  | 86A                       | 65157      | WASHER,FLAT ROUND M12 X 37MM GAL         | 4             |   |        |  |   |
|             |                |   |                  | 86B                       | 65158      | WASHER,FLAT ROUND M16 X 50MM GAL         | 14            |   |        |  |   |
|             |                |   |                  | 2A                        | 323314     | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL  | 4             |   |        |  |   |
|             |                |   |                  | 60A                       | 320756     | INSULATOR,PIN 660V LVLP PORCELAIN        | 4             |   |        |  |   |
|             |                |   |                  | H                         |            | S/LV9/3/PLM                              | S             | 17A   | 323331 | BRACKET,INSULATOR 50X3X630MM F-STRAP     | 8   |
|             |                |   |                  |                           |            |  |               | 1C  | 323212 | CROSSARM,WOOD 100 X 100 X 2750MM LONG    | 2   |
|             |                |   |                  |                           |            |  |               | 59C   | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL    | 4   |
| 60C         | 321117         | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN   | 8                |                           |            |  |               |   |        |  |   |
| 74E         | 32223          | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT  | 8                |                           |            |  |               |   |        |  |   |
| 74F         | 32224          | BOLT,HEX HEAD M12 X 130MM GAL. C/W NUT  | 4                |                           |            |  |               |   |        |  |   |
| 75D         | 32276          | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT  | 8                |                           |            |  |               |   |        |  |   |
| 75K         | 32285          | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT  | 1                |                           |            |  |               |   |        |  |   |
| 75R         | 32291          | BOLT,HEX HEAD M16 X 425MM GAL. C/W NUT  | 3                |                           |            |  |               |   |        |  |   |
| 82A         | 40441          | NUT,HEX M16 THREAD GALANISED STEEL  | 4                |                           |            |  |               |   |        |  |   |
| 86A         | 65157          | WASHER,FLAT ROUND M12 X 37MM GAL  | 4                |                           |            |  |               |   |        |  |   |
| 86B         | 65158          | WASHER,FLAT ROUND M16 X 50MM GAL  | 14               |                           |            |  |               |   |        |  |   |
| 2A          | 323314         | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL   | 4                |                           |            |  |               |   |        |  |   |
| 60A         | 320756         | INSULATOR,PIN 660V LVLP PORCELAIN   | 4                |                           |            |  |               |   |        |  |   |
| ALTERATIONS | ORIGINAL ISSUE |  |                  |                           |            |  |               | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299 |        |  | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNWORKS |
|             |                |   |                  |                           |            |  |               | TITLE<br>STRAIN - LV OPEN WIRE<br>MATERIAL LIST                                 |        |  |   |
|             |                | DRAWN   | ES PRO-SOLUTIONS |                           |            |  |               |   |        |  | A4  |
|             |                | DESIGNED BY   | ELECTRO          |                           |            |  |               |   |        |  |   |
|             |                | CHECKED BY  | H.WESTBURY       |                           |            |  | REVISION<br>A |   |        |  |   |
|             |                | APPROVED BY   | A KETLEY         |                           |            |  |               |   |        |  |   |
|             |                | DATE APPROVED   | 04/APR/19        | D - OHC - B016 - SD - 002 |            |  |               |   |        |  |   |

## 2.7 Right Angle Strain LV Open Wire

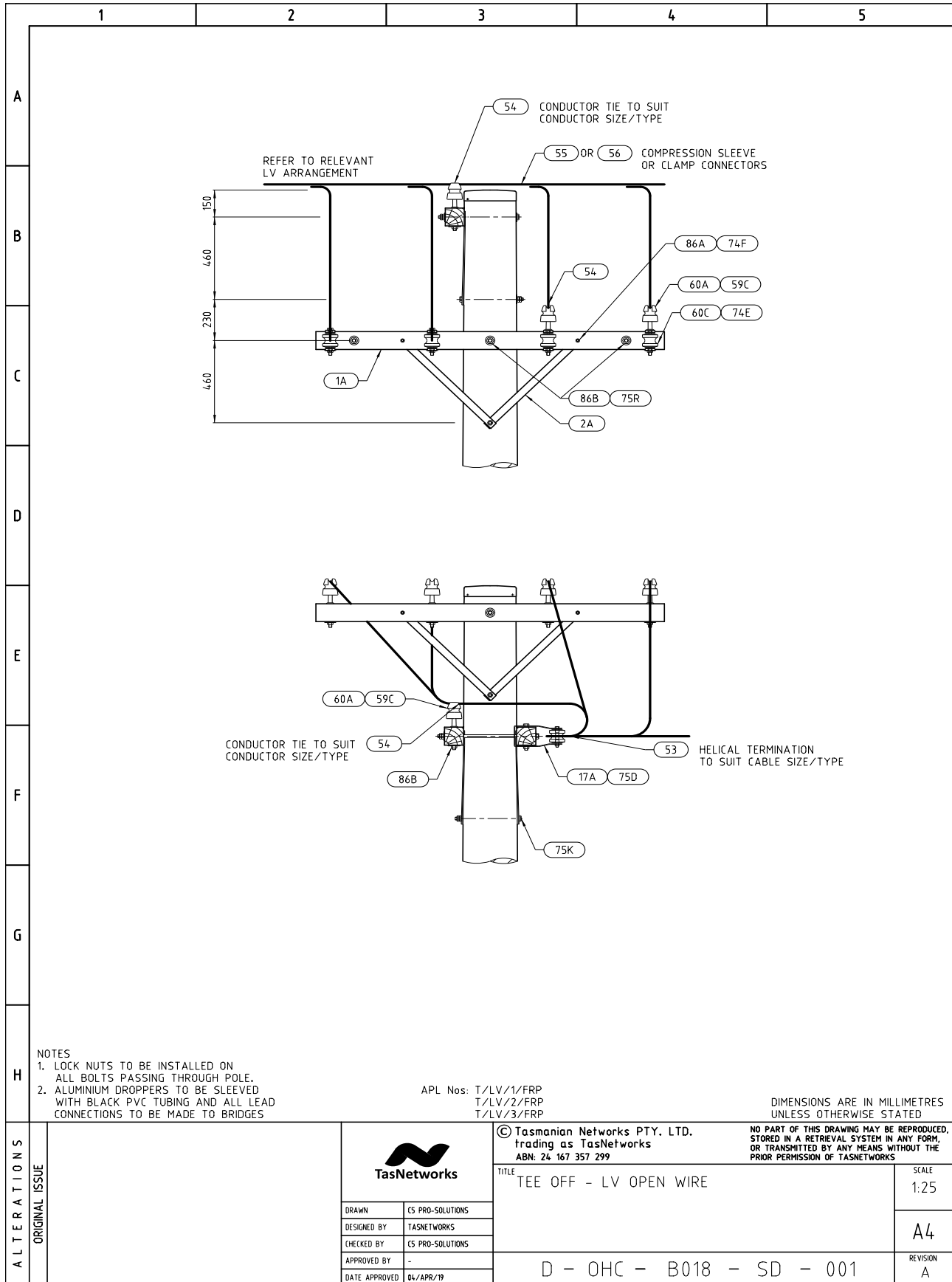


Aright Angle Strain LV Open Wire – Materials List

| 1 |                 | 2               |     | 3      |  | 4  |  | 5 |   |
|---|-----------------|-----------------|-----|--------|--|--|--|---|---|
| A | RS/LV/1/FRP/PLM | S               | 17A | 323331 | BRACKET,INSULATOR 50X3X630MM F-STRAP     |  |  | 4 |   |
|   |                 |                 | 1A  | 323215 | CROSSARM,FIBREGLASS, 100X100X1830MM LONG |  |  | 4 |   |
|   |                 |                 | 59C | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL    |  |  | 2 |   |
|   |                 |                 | 60C | 321117 | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN    |  |  | 2 |   |
|   |                 |                 | 74E | 32223  | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT   |  |  | 4 |   |
|   |                 |                 | 74G | 32225  | BOLT,HEX HEAD M12 X 140MM GAL. C/W NUT   |  |  | 8 |   |
|   |                 |                 | 75D | 32276  | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   |  |  | 4 |   |
|   |                 |                 | 75K | 32285  | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT   |  |  | 2 |   |
|   |                 |                 | 75R | 32291  | BOLT,HEX HEAD M16 X 425MM GAL. C/W NUT   |  |  | 6 |   |
|   |                 |                 | 86A | 65157  | WASHER,FLAT ROUND M12 X 37MM GAL         |  |  | 8 |   |
|   | B               | RS/LV/2/FRP/PLM | S   | 1A     | 323215                                   | CROSSARM,FIBREGLASS, 100X100X1830MM LONG |  |   | 4 |
|   |                 |                 |     | 59C    | 322723                                   | PIN,INSULATOR 16MM DIA X LV GAL STEEL    |  |   | 4 |
|   |                 |                 |     | 60C    | 321117                                   | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN    |  |   | 4 |
|   |                 |                 |     | 74E    | 32223                                    | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT   |  |   | 6 |
|   |                 |                 |     | 74G    | 32225                                    | BOLT,HEX HEAD M12 X 140MM GAL. C/W NUT   |  |   | 8 |
|   |                 |                 |     | 75D    | 32276                                    | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   |  |   | 6 |
|   |                 |                 |     | 75K    | 32285                                    | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT   |  |   | 2 |
|   |                 |                 |     | 75R    | 32291                                    | BOLT,HEX HEAD M16 X 425MM GAL. C/W NUT   |  |   | 6 |
|   |                 |                 |     | 86A    | 65157                                    | WASHER,FLAT ROUND M12 X 37MM GAL         |  |   | 8 |
|   |                 |                 |     | 86B    | 65158                                    | WASHER,FLAT ROUND M16 X 50MM GAL         |  |   | 6 |
|   | C               | RS/LV/3/FRP/PLM | S   | 2A     | 323314                                   | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL  |  |   | 8 |
|   |                 |                 |     | 60A    | 320756                                   | INSULATOR,PIN 660V LVLP PORCELAIN        |  |   | 2 |
|   |                 |                 |     | 17A    | 323331                                   | BRACKET,INSULATOR 50X3X630MM F-STRAP     |  |   | 6 |
|   |                 |                 |     | 1A     | 323215                                   | CROSSARM,FIBREGLASS, 100X100X1830MM LONG |  |   | 4 |
|   |                 |                 |     | 59C    | 322723                                   | PIN,INSULATOR 16MM DIA X LV GAL STEEL    |  |   | 4 |
|   |                 |                 |     | 60C    | 321117                                   | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN    |  |   | 4 |
|   |                 |                 |     | 74E    | 32223                                    | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT   |  |   | 6 |
|   |                 |                 |     | 74G    | 32225                                    | BOLT,HEX HEAD M12 X 140MM GAL. C/W NUT   |  |   | 8 |
|   |                 |                 |     | 75D    | 32276                                    | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   |  |   | 6 |
|   |                 |                 |     | 75K    | 32285                                    | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT   |  |   | 2 |
| D | RS/LV/1/FRP/PLM | S               | 75R | 32291  | BOLT,HEX HEAD M16 X 425MM GAL. C/W NUT   |  |  | 6 |   |
|   |                 |                 | 86A | 65157  | WASHER,FLAT ROUND M12 X 37MM GAL         |  |  | 8 |   |
|   |                 |                 | 86B | 65158  | WASHER,FLAT ROUND M16 X 50MM GAL         |  |  | 6 |   |
|   |                 |                 | 2A  | 323314 | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL  |  |  | 8 |   |
|   |                 |                 | 60A | 320756 | INSULATOR,PIN 660V LVLP PORCELAIN        |  |  | 4 |   |
|   |                 |                 | 17A | 323331 | BRACKET,INSULATOR 50X3X630MM F-STRAP     |  |  | 8 |   |
|   |                 |                 | 1A  | 323215 | CROSSARM,FIBREGLASS, 100X100X1830MM LONG |  |  | 4 |   |
|   |                 |                 | 59C | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL    |  |  | 4 |   |
|   |                 |                 | 60C | 321117 | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN    |  |  | 4 |   |
|   |                 |                 | 74E | 32223  | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT   |  |  | 8 |   |
| E | RS/LV/2/FRP/PLM | S               | 74G | 32225  | BOLT,HEX HEAD M12 X 140MM GAL. C/W NUT   |  |  | 8 |   |
|   |                 |                 | 75D | 32276  | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   |  |  | 8 |   |
|   |                 |                 | 75K | 32285  | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT   |  |  | 2 |   |
|   |                 |                 | 75R | 32291  | BOLT,HEX HEAD M16 X 425MM GAL. C/W NUT   |  |  | 6 |   |
|   |                 |                 | 86A | 65157  | WASHER,FLAT ROUND M12 X 37MM GAL         |  |  | 8 |   |
|   |                 |                 | 86B | 65158  | WASHER,FLAT ROUND M16 X 50MM GAL         |  |  | 6 |   |
|   |                 |                 | 2A  | 323314 | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL  |  |  | 8 |   |
|   |                 |                 | 60A | 320756 | INSULATOR,PIN 660V LVLP PORCELAIN        |  |  | 8 |   |
|   |                 |                 | 17A | 323331 | BRACKET,INSULATOR 50X3X630MM F-STRAP     |  |  | 8 |   |
|   |                 |                 | 1A  | 323215 | CROSSARM,FIBREGLASS, 100X100X1830MM LONG |  |  | 4 |   |
| F | RS/LV/3/FRP/PLM | S               | 59C | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL    |  |  | 4 |   |
|   |                 |                 | 60C | 321117 | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN    |  |  | 4 |   |
|   |                 |                 | 74E | 32223  | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT   |  |  | 4 |   |
|   |                 |                 | 74G | 32225  | BOLT,HEX HEAD M12 X 140MM GAL. C/W NUT   |  |  | 8 |   |
|   |                 |                 | 75D | 32276  | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   |  |  | 8 |   |
|   |                 |                 | 75K | 32285  | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT   |  |  | 2 |   |
|   |                 |                 | 75R | 32291  | BOLT,HEX HEAD M16 X 425MM GAL. C/W NUT   |  |  | 6 |   |
|   |                 |                 | 86A | 65157  | WASHER,FLAT ROUND M12 X 37MM GAL         |  |  | 8 |   |
|   |                 |                 | 86B | 65158  | WASHER,FLAT ROUND M16 X 50MM GAL         |  |  | 6 |   |
|   |                 |                 | 2A  | 323314 | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL  |  |  | 8 |   |
| G | RS/LV/1/FRP/PLM | S               | 60A | 320756 | INSULATOR,PIN 660V LVLP PORCELAIN        |  |  | 4 |   |
|   |                 |                 | 17A | 323331 | BRACKET,INSULATOR 50X3X630MM F-STRAP     |  |  | 8 |   |
|   |                 |                 | 1A  | 323215 | CROSSARM,FIBREGLASS, 100X100X1830MM LONG |  |  | 4 |   |
|   |                 |                 | 59C | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL    |  |  | 4 |   |
|   |                 |                 | 60C | 321117 | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN    |  |  | 4 |   |
|   |                 |                 | 74E | 32223  | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT   |  |  | 8 |   |
|   |                 |                 | 74G | 32225  | BOLT,HEX HEAD M12 X 140MM GAL. C/W NUT   |  |  | 8 |   |
|   |                 |                 | 75D | 32276  | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   |  |  | 8 |   |
|   |                 |                 | 75K | 32285  | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT   |  |  | 2 |   |
|   |                 |                 | 75R | 32291  | BOLT,HEX HEAD M16 X 425MM GAL. C/W NUT   |  |  | 6 |   |
| H | RS/LV/2/FRP/PLM | S               | 86A | 65157  | WASHER,FLAT ROUND M12 X 37MM GAL         |  |  | 8 |   |
|   |                 |                 | 86B | 65158  | WASHER,FLAT ROUND M16 X 50MM GAL         |  |  | 6 |   |
|   |                 |                 | 2A  | 323314 | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL  |  |  | 8 |   |
|   |                 |                 | 60A | 320756 | INSULATOR,PIN 660V LVLP PORCELAIN        |  |  | 8 |   |
|   |                 |                 | 17A | 323331 | BRACKET,INSULATOR 50X3X630MM F-STRAP     |  |  | 8 |   |
|   |                 |                 | 1A  | 323215 | CROSSARM,FIBREGLASS, 100X100X1830MM LONG |  |  | 4 |   |
|   |                 |                 | 59C | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL    |  |  | 4 |   |
|   |                 |                 | 60C | 321117 | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN    |  |  | 4 |   |
|   |                 |                 | 74E | 32223  | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT   |  |  | 8 |   |
|   |                 |                 | 74G | 32225  | BOLT,HEX HEAD M12 X 140MM GAL. C/W NUT   |  |  | 8 |   |


|               |                |   |                  |   |   |  |
|---------------|----------------|---|------------------|---|---|--|
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|               |                | TITLE<br>RIGHT ANGLE - STRAIN - LV OPEN WIRE<br>MATERIAL LIST                       |                  |   | SCALE<br>NTS  |  |
|               |                | DRAWN   | CS PRO-SOLUTIONS |   |   |  |
|               |                | DESIGNED BY   | ELECTRO          |   |   |  |
|               |                | CHECKED BY  | H.WESTBURY       |   |   |  |
| APPROVED BY   | A.KETLEY       | D - OHC - B017 - SD - 002   |                  |   |   |  |
| DATE APPROVED | 04/APR/19      |   |                  |   | REVISION<br>A   |  |

## 2.8 Tee Off LV Open Wire

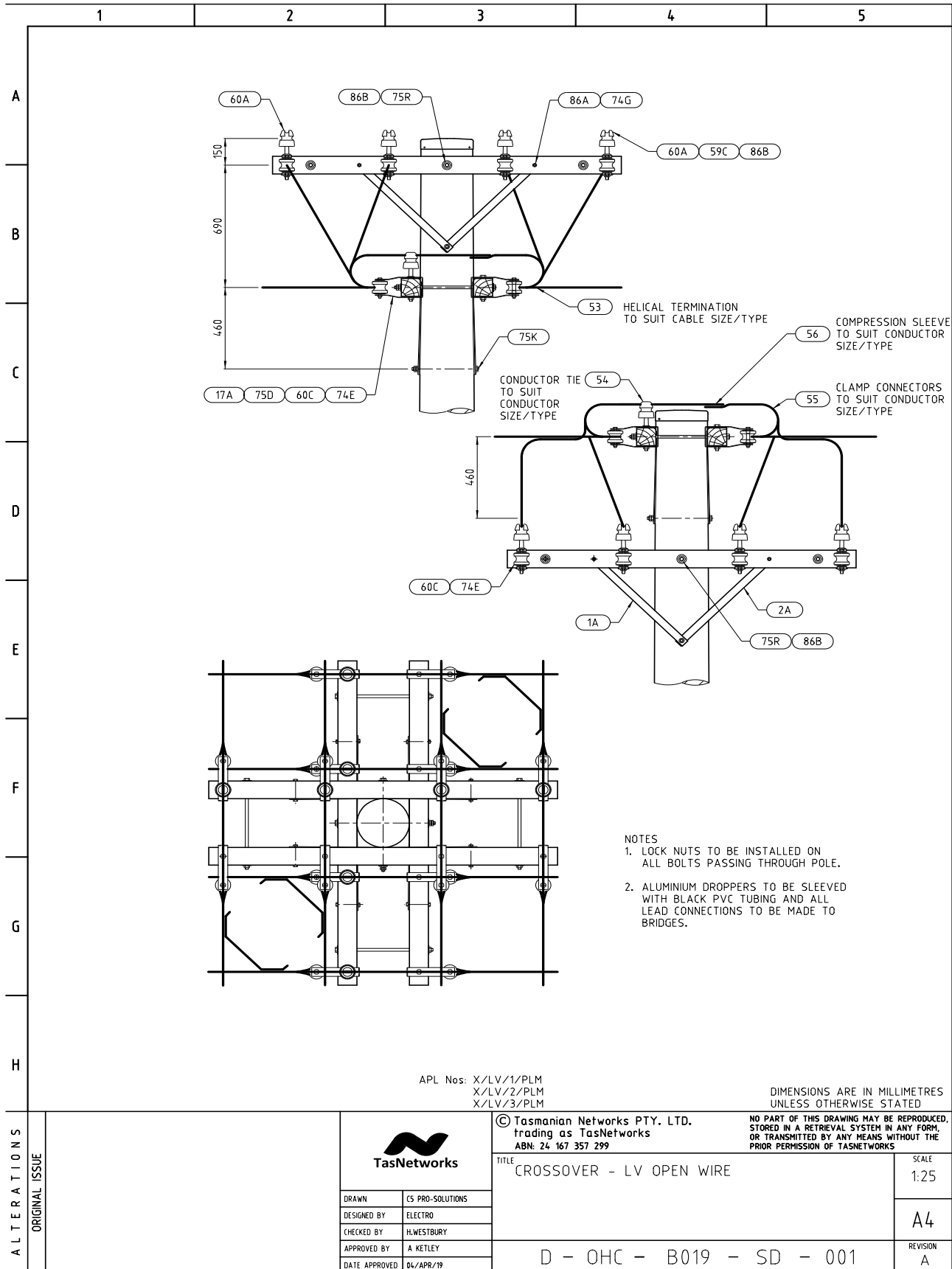




Tee Off LV Open Wire – Materials List

|  |                               | 1   | 2          | 3   | 4          | 5   |          |            |        |                                   |        |  |    |
|--|-------------------------------|---|------------|---|------------|---|----------|------------|--------|-----------------------------------|--------|--|----|
| A<br><br>B<br><br>C<br><br>D<br><br>E<br><br>F<br><br>G<br><br>H | ALTERATIONS<br>ORIGINAL ISSUE | Unit Assembly   | Store Type | Item Ref  | Stock Item | Stock Item Description  | Quantity |            |        |                                   |        |  |    |
|  |                               |   |            |   |            |   |          | T/LV/1/FRP | S      | 17A                               | 323331 | BRACKET,INSULATOR 50X3X630MM F-STRAP     | 6  |
|  |                               |   |            |   |            |   |          |            |        | 1A                                | 323215 | CROSSARM,FIBREGLASS, 100X100X1830MM LONG | 4  |
|  |                               |   |            |   |            |   |          |            |        | 59C                               | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL    | 3  |
|  |                               |   |            |   |            |   |          |            |        | 60C                               | 321117 | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN    | 6  |
|  |                               |   |            |   |            |   |          |            |        | 74E                               | 32223  | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT   | 6  |
|  |                               |   |            |   |            |   |          |            |        | 74F                               | 32224  | BOLT,HEX HEAD M12 X 130MM GAL. C/W NUT   | 8  |
|  |                               |   |            |   |            |   |          |            |        | 75D                               | 32276  | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   | 6  |
|  |                               |   |            |   |            |   |          |            |        | 75K                               | 32285  | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT   | 2  |
|  |                               |   |            |   |            |   |          |            |        | 75R                               | 32291  | BOLT,HEX HEAD M16 X 425MM GAL. C/W NUT   | 6  |
|  |                               |   |            |   |            |   |          |            |        | 86A                               | 65157  | WASHER,FLAT ROUND M12 X 37MM GAL         | 8  |
|  |                               |   |            |   |            |   |          |            |        | 86B                               | 65158  | WASHER,FLAT ROUND M16 X 50MM GAL         | 4  |
|  |                               |   |            |   |            |   |          |            |        | 2A                                | 323314 | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL  | 8  |
|  |                               |   |            |   |            |   |          | 60A        | 320756 | INSULATOR,PIN 660V LVLP PORCELAIN | 3      |  |    |
|  |                               |   |            |   |            |   |          | T/LV/2/FRP | S      | 17A                               | 323331 | BRACKET,INSULATOR 50X3X630MM F-STRAP     | 9  |
|  |                               |   |            |   |            |   |          |            |        | 1A                                | 323215 | CROSSARM,FIBREGLASS, 100X100X1830MM LONG | 4  |
|  |                               |   |            |   |            |   |          |            |        | 59C                               | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL    | 5  |
|  |                               |   |            |   |            |   |          |            |        | 60C                               | 321117 | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN    | 9  |
|  |                               |   |            |   |            |   |          |            |        | 74E                               | 32223  | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT   | 9  |
|  |                               |   |            |   |            |   |          |            |        | 74F                               | 32224  | BOLT,HEX HEAD M12 X 130MM GAL. C/W NUT   | 8  |
|  |                               |   |            |   |            |   |          |            |        | 75D                               | 32276  | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   | 9  |
|  |                               |   |            |   |            |   |          |            |        | 75K                               | 32285  | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT   | 2  |
|  |                               |   |            |   |            |   |          |            |        | 75R                               | 32291  | BOLT,HEX HEAD M16 X 425MM GAL. C/W NUT   | 6  |
|  |                               |   |            |   |            |   |          |            |        | 86A                               | 65157  | WASHER,FLAT ROUND M12 X 37MM GAL         | 8  |
|  |                               |   |            |   |            |   |          |            |        | 86B                               | 65158  | WASHER,FLAT ROUND M16 X 50MM GAL         | 6  |
|  |                               |   |            |   |            |   |          |            |        | 2A                                | 323314 | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL  | 8  |
|  |                               |   |            |   |            |   |          | 60A        | 320756 | INSULATOR,PIN 660V LVLP PORCELAIN | 5      |  |    |
|  |                               |   |            |   |            |   |          | T/LV/3/FRP | S      | 17A                               | 323331 | BRACKET,INSULATOR 50X3X630MM F-STRAP     | 12 |
|  |                               |   |            |   |            |   |          |            |        | 1A                                | 323215 | CROSSARM,FIBREGLASS, 100X100X1830MM LONG | 4  |
|  |                               |   |            |   |            |   |          |            |        | 59C                               | 322723 | PIN,INSULATOR 16MM DIA X LV GAL STEEL    | 6  |
| 60C  | 321117                        | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN   | 12         |   |            |   |          |            |        |                                   |        |  |    |
| 74E  | 32223                         | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT  | 12         |   |            |   |          |            |        |                                   |        |  |    |
| 74F  | 32224                         | BOLT,HEX HEAD M12 X 130MM GAL. C/W NUT  | 8          |   |            |   |          |            |        |                                   |        |  |    |
| 75D  | 32276                         | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT  | 12         |   |            |   |          |            |        |                                   |        |  |    |
| 75K  | 32285                         | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT  | 2          |   |            |   |          |            |        |                                   |        |  |    |
| 75R  | 32291                         | BOLT,HEX HEAD M16 X 425MM GAL. C/W NUT  | 6          |   |            |   |          |            |        |                                   |        |  |    |
| 86A  | 65157                         | WASHER,FLAT ROUND M12 X 37MM GAL  | 8          |   |            |   |          |            |        |                                   |        |  |    |
| 86B  | 65158                         | WASHER,FLAT ROUND M16 X 50MM GAL  | 6          |   |            |   |          |            |        |                                   |        |  |    |
| 2A   | 323314                        | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL   | 8          |   |            |   |          |            |        |                                   |        |  |    |
| 60A  | 320756                        | INSULATOR,PIN 660V LVLP PORCELAIN   | 6          |   |            |   |          |            |        |                                   |        |  |    |
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|  |                               | DRAWN CS PRO-SOLUTIONS<br>DESIGNED BY ELECTRO<br>CHECKED BY H.WESTBURY<br>APPROVED BY A KETLEY<br>DATE APPROVED 04/APR/19 |            | TITLE<br>TEE - OFF - LV OPEN WIRE<br>MATERIAL LIST                              |            | SCALE<br>NTS<br><br>A4<br><br>REVISION<br>A   |          |            |        |                                   |        |  |    |
|  |                               | D - OHC - B018 - SD - 002   |            |   |            |   |          |            |        |                                   |        |  |    |

## 2.9 Cross Over LV Open Wire




Cross Over LV Open Wire – Materials List

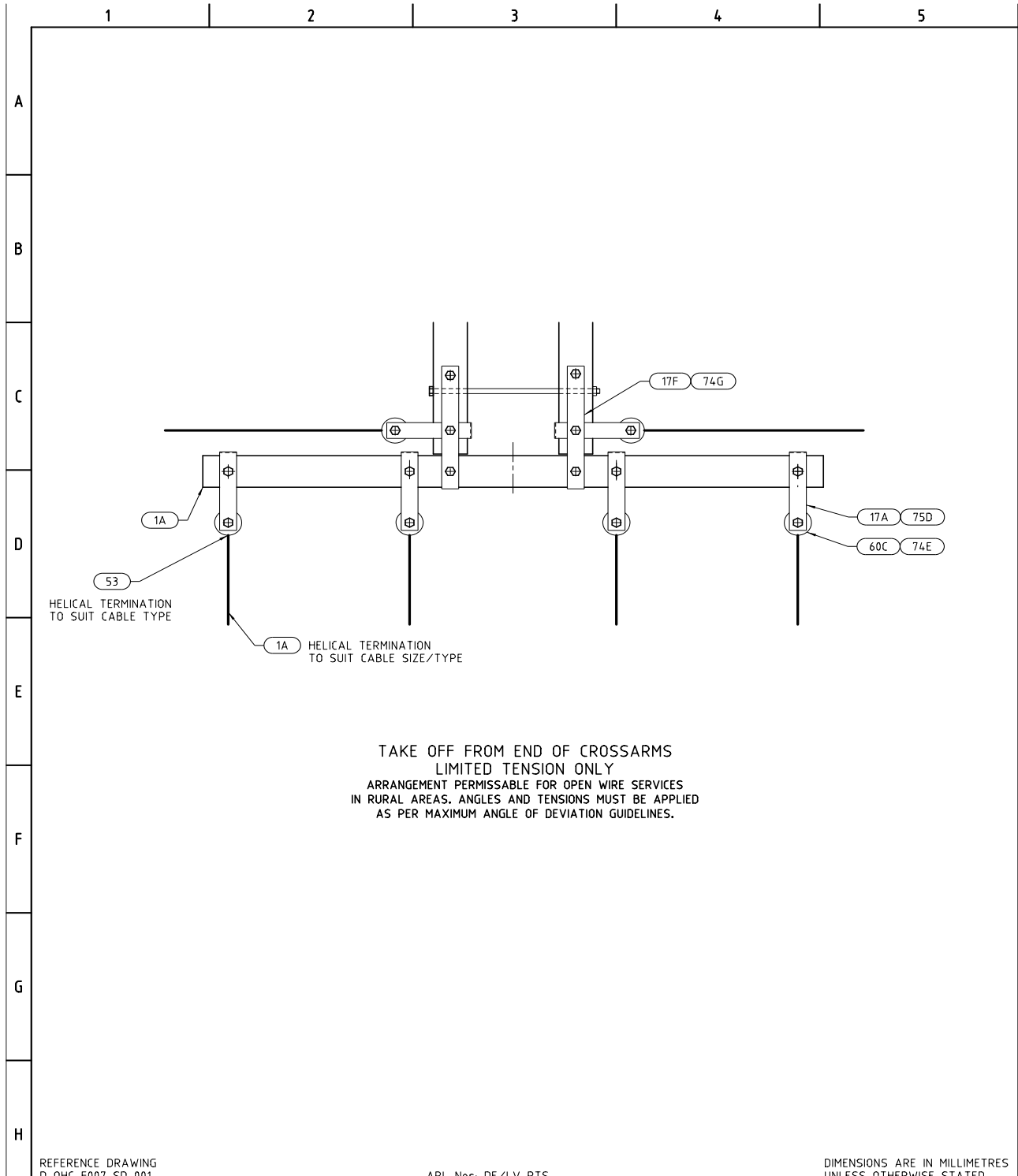
| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| A |   |   |   |   |
| B |   |   |   |   |
| C |   |   |   |   |
| D |   |   |   |   |
| E |   |   |   |   |
| F |   |   |   |   |
| G |   |   |   |   |
| H |   |   |   |   |

| Unit Assembly | Store Type | Item Ref | Stock Item | Stock Item Description                   | Quantity |
|---------------|------------|----------|------------|--|----------|
| XLV/1/PLM     | S          | 17A      | 323331     | BRACKET,INSULATOR 50X3X630MM F-STRAP     | 8        |
|               |            | 1A       | 323215     | CROSSARM,FIBREGLASS, 100X100X1830MM LONG | 4        |
|               |            | 59C      | 322723     | PIN,INSULATOR 16MM DIA X LV GAL STEEL    | 4        |
|               |            | 60C      | 321117     | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN    | 8        |
|               |            | 74E      | 32223      | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT   | 8        |
|               |            | 74G      | 32225      | BOLT,HEX HEAD M12 X 140MM GAL. C/W NUT   | 8        |
|               |            | 75D      | 32276      | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   | 8        |
|               |            | 75K      | 32285      | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT   | 2        |
|               |            | 75R      | 32291      | BOLT,HEX HEAD M16 X 425MM GAL. C/W NUT   | 6        |
|               |            | 86A      | 65157      | WASHER,FLAT ROUND M12 X 37MM GAL         | 8        |
|               |            | 86B      | 65158      | WASHER,FLAT ROUND M16 X 50MM GAL         | 20       |
|               |            | 2A       | 323314     | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL  | 8        |
|               |            | 60A      | 320756     | INSULATOR,PIN 660V LVLP PORCELAIN        | 4        |
| XLV/2/PLM     | S          | 17A      | 323331     | BRACKET,INSULATOR 50X3X630MM F-STRAP     | 12       |
|               |            | 1A       | 323215     | CROSSARM,FIBREGLASS, 100X100X1830MM LONG | 4        |
|               |            | 59C      | 322723     | PIN,INSULATOR 16MM DIA X LV GAL STEEL    | 6        |
|               |            | 60C      | 321117     | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN    | 12       |
|               |            | 74E      | 32223      | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT   | 12       |
|               |            | 74G      | 32225      | BOLT,HEX HEAD M12 X 140MM GAL. C/W NUT   | 8        |
|               |            | 75D      | 32276      | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   | 12       |
|               |            | 75K      | 32285      | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT   | 2        |
|               |            | 75R      | 32291      | BOLT,HEX HEAD M16 X 425MM GAL. C/W NUT   | 6        |
|               |            | 86A      | 65157      | WASHER,FLAT ROUND M12 X 37MM GAL         | 8        |
|               |            | 86B      | 65158      | WASHER,FLAT ROUND M16 X 50MM GAL         | 24       |
|               |            | 2A       | 323314     | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL  | 8        |
|               |            | 60A      | 320756     | INSULATOR,PIN 660V LVLP PORCELAIN        | 6        |
| XLV/3/PLM     | S          | 17A      | 323331     | BRACKET,INSULATOR 50X3X630MM F-STRAP     | 16       |
|               |            | 1A       | 323215     | CROSSARM,FIBREGLASS, 100X100X1830MM LONG | 4        |
|               |            | 59C      | 322723     | PIN,INSULATOR 16MM DIA X LV GAL STEEL    | 8        |
|               |            | 60C      | 321117     | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN    | 16       |
|               |            | 74E      | 32223      | BOLT,HEX HEAD M12 X 120MM GAL. C/W NUT   | 16       |
|               |            | 74G      | 32225      | BOLT,HEX HEAD M12 X 140MM GAL. C/W NUT   | 8        |
|               |            | 75D      | 32276      | BOLT,HEX HEAD M16 X 150MM GAL. C/W NUT   | 16       |
|               |            | 75K      | 32285      | BOLT,HEX HEAD M16 X 280MM GAL. C/W NUT   | 2        |
|               |            | 75R      | 32291      | BOLT,HEX HEAD M16 X 425MM GAL. C/W NUT   | 6        |
|               |            | 86A      | 65157      | WASHER,FLAT ROUND M12 X 37MM GAL         | 8        |
|               |            | 86B      | 65158      | WASHER,FLAT ROUND M16 X 50MM GAL         | 28       |
|               |            | 2A       | 323314     | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL  | 8        |
|               |            | 60A      | 320756     | INSULATOR,PIN 660V LVLP PORCELAIN        | 8        |


|               |                |   |                  |   |  |   |  |
|---------------|----------------|---|------------------|---|--|---|--|
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|               |                |   |                  | TITLE<br>CROSSOVER - LV OPEN WIRE<br>MATERIAL LIST                              |  | SCALE<br>NTS  |  |
|               |                | DRAWN   | CS PRO-SOLUTIONS |   |  | A4  |  |
|               |                | DESIGNED BY   | TASNETWORKS      |   |  |   |  |
|               |                | CHECKED BY  | CS PRO-SOLUTIONS |   |  |   |  |
| APPROVED BY   | A. KETLEY      |   |                  |   |  | REVISION<br>A   |  |
| DATE APPROVED | 04/APR/19      |   |                  | D - OHC - B019 - SD - 002   |  |   |  |

### 2.10 LV Open Wire Service Crossarm for Transformer Pole



|                           |                |                         |  |  |  |    |
|---------------------------|----------------|-------------------------|--|--|--|----|
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|                           |                | DESIGNED BY ELECTRO     |  |  | TITLE<br>LV OPEN WIRE SERVICE CROSSARM<br>FOR TRANSFORMER POLE | A4 |
|                           |                | CHECKED BY H.WESTBURY   |  |  |  |    |
|                           |                | APPROVED BY A.KETLEY    |  |  |  |    |
|                           |                | DATE APPROVED 04/APR/19 |  |  |  |    |
| D - OHC - B020 - SD - 001 |                | REVISION<br>A           |  |  |  |    |

LV Open Wire Service Crossarm for a Transformer Pole – Materials List

|               | 1  | 2   | 3          | 4   | 5        |               |            |          |            |                        |          |           |   |    |        |                                       |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |  |   |     |        |                                      |   |     |        |                                      |   |
|---------------|--|---|------------|---|----------|---------------|------------|----------|------------|------------------------|----------|-----------|---|----|--------|---------------------------------------|---|-----|--------|---------------------------------------|---|-----|-------|--|---|-----|-------|--|---|-----|-------|--|---|-----|--------|--------------------------------------|---|-----|--------|--------------------------------------|---|
| A             |  |   |            |   |          |               |            |          |            |                        |          |           |   |    |        |                                       |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |  |   |     |        |                                      |   |     |        |                                      |   |
| B             |  |   |            |   |          |               |            |          |            |                        |          |           |   |    |        |                                       |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |  |   |     |        |                                      |   |     |        |                                      |   |
| C             | <table border="1"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Stock Item Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td rowspan="7">DE/LV-PTS</td> <td rowspan="7">S</td> <td>1A</td> <td>323210</td> <td>CROSSARM,WOOD 100 X 100 X 1830MM LONG</td> <td>1</td> </tr> <tr> <td>60C</td> <td>321117</td> <td>INSULATOR,STRAIN 80MM SHLV2 PORCELAIN</td> <td>4</td> </tr> <tr> <td>74E</td> <td>32223</td> <td>BOLT,Hex Head M12 x 120mm Gal. c/w Nut</td> <td>4</td> </tr> <tr> <td>74G</td> <td>32225</td> <td>BOLT,Hex Head M12 x 140mm Gal. c/w Nut</td> <td>6</td> </tr> <tr> <td>75D</td> <td>32276</td> <td>BOLT,Hex Head M16 x 150mm Gal. c/w Nut</td> <td>4</td> </tr> <tr> <td>17F</td> <td>323378</td> <td>BRACKET,Crossarm 50 x 50 x 390mm Gal</td> <td>2</td> </tr> <tr> <td>17A</td> <td>323331</td> <td>BRACKET,Insulator 50x3x630mm F-Strap</td> <td>8</td> </tr> </tbody> </table> |   |            |   |          | Unit Assembly | Store Type | Item Ref | Stock Item | Stock Item Description | Quantity | DE/LV-PTS | S | 1A | 323210 | CROSSARM,WOOD 100 X 100 X 1830MM LONG | 1 | 60C | 321117 | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN | 4 | 74E | 32223 | BOLT,Hex Head M12 x 120mm Gal. c/w Nut | 4 | 74G | 32225 | BOLT,Hex Head M12 x 140mm Gal. c/w Nut | 6 | 75D | 32276 | BOLT,Hex Head M16 x 150mm Gal. c/w Nut | 4 | 17F | 323378 | BRACKET,Crossarm 50 x 50 x 390mm Gal | 2 | 17A | 323331 | BRACKET,Insulator 50x3x630mm F-Strap | 8 |
| Unit Assembly | Store Type   | Item Ref  | Stock Item | Stock Item Description  | Quantity |               |            |          |            |                        |          |           |   |    |        |                                       |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |  |   |     |        |                                      |   |     |        |                                      |   |
| DE/LV-PTS     | S  | 1A  | 323210     | CROSSARM,WOOD 100 X 100 X 1830MM LONG   | 1        |               |            |          |            |                        |          |           |   |    |        |                                       |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |  |   |     |        |                                      |   |     |        |                                      |   |
|               |  | 60C   | 321117     | INSULATOR,STRAIN 80MM SHLV2 PORCELAIN   | 4        |               |            |          |            |                        |          |           |   |    |        |                                       |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |  |   |     |        |                                      |   |     |        |                                      |   |
|               |  | 74E   | 32223      | BOLT,Hex Head M12 x 120mm Gal. c/w Nut  | 4        |               |            |          |            |                        |          |           |   |    |        |                                       |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |  |   |     |        |                                      |   |     |        |                                      |   |
|               |  | 74G   | 32225      | BOLT,Hex Head M12 x 140mm Gal. c/w Nut  | 6        |               |            |          |            |                        |          |           |   |    |        |                                       |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |  |   |     |        |                                      |   |     |        |                                      |   |
|               |  | 75D   | 32276      | BOLT,Hex Head M16 x 150mm Gal. c/w Nut  | 4        |               |            |          |            |                        |          |           |   |    |        |                                       |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |  |   |     |        |                                      |   |     |        |                                      |   |
|               |  | 17F   | 323378     | BRACKET,Crossarm 50 x 50 x 390mm Gal  | 2        |               |            |          |            |                        |          |           |   |    |        |                                       |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |  |   |     |        |                                      |   |     |        |                                      |   |
|               |  | 17A   | 323331     | BRACKET,Insulator 50x3x630mm F-Strap  | 8        |               |            |          |            |                        |          |           |   |    |        |                                       |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |  |   |     |        |                                      |   |     |        |                                      |   |
| D             |  |   |            |   |          |               |            |          |            |                        |          |           |   |    |        |                                       |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |  |   |     |        |                                      |   |     |        |                                      |   |
| E             |  |   |            |   |          |               |            |          |            |                        |          |           |   |    |        |                                       |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |  |   |     |        |                                      |   |     |        |                                      |   |
| F             |  |   |            |   |          |               |            |          |            |                        |          |           |   |    |        |                                       |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |  |   |     |        |                                      |   |     |        |                                      |   |
| G             |  |   |            |   |          |               |            |          |            |                        |          |           |   |    |        |                                       |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |  |   |     |        |                                      |   |     |        |                                      |   |
| H             |  |   |            |   |          |               |            |          |            |                        |          |           |   |    |        |                                       |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |  |   |     |        |                                      |   |     |        |                                      |   |
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|               |  |   |            | TITLE<br>LV OPEN WIRE SERVICE CROSSARM<br>FOR TRANSFORMER POLE<br>MATERIAL LIST   |          | SCALE<br>NTS  |            |          |            |                        |          |           |   |    |        |                                       |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |  |   |     |        |                                      |   |     |        |                                      |   |
|               |  |   |            | D - OHC - B020 - SD - 002   |          | A4            |            |          |            |                        |          |           |   |    |        |                                       |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |  |   |     |        |                                      |   |     |        |                                      |   |
|               |  |   |            | DRAWN CS PRO-SOLUTIONS<br>DESIGNED BY ELECTRO<br>CHECKED BY H.WESTBURY<br>APPROVED BY A.KETLEY<br>DATE APPROVED 04/APR/19   |          | REVISION<br>A |            |          |            |                        |          |           |   |    |        |                                       |   |     |        |                                       |   |     |       |  |   |     |       |  |   |     |       |  |   |     |        |                                      |   |     |        |                                      |   |



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# SECTION 3 – 11-12.7-22KV CONSTRUCTIONS





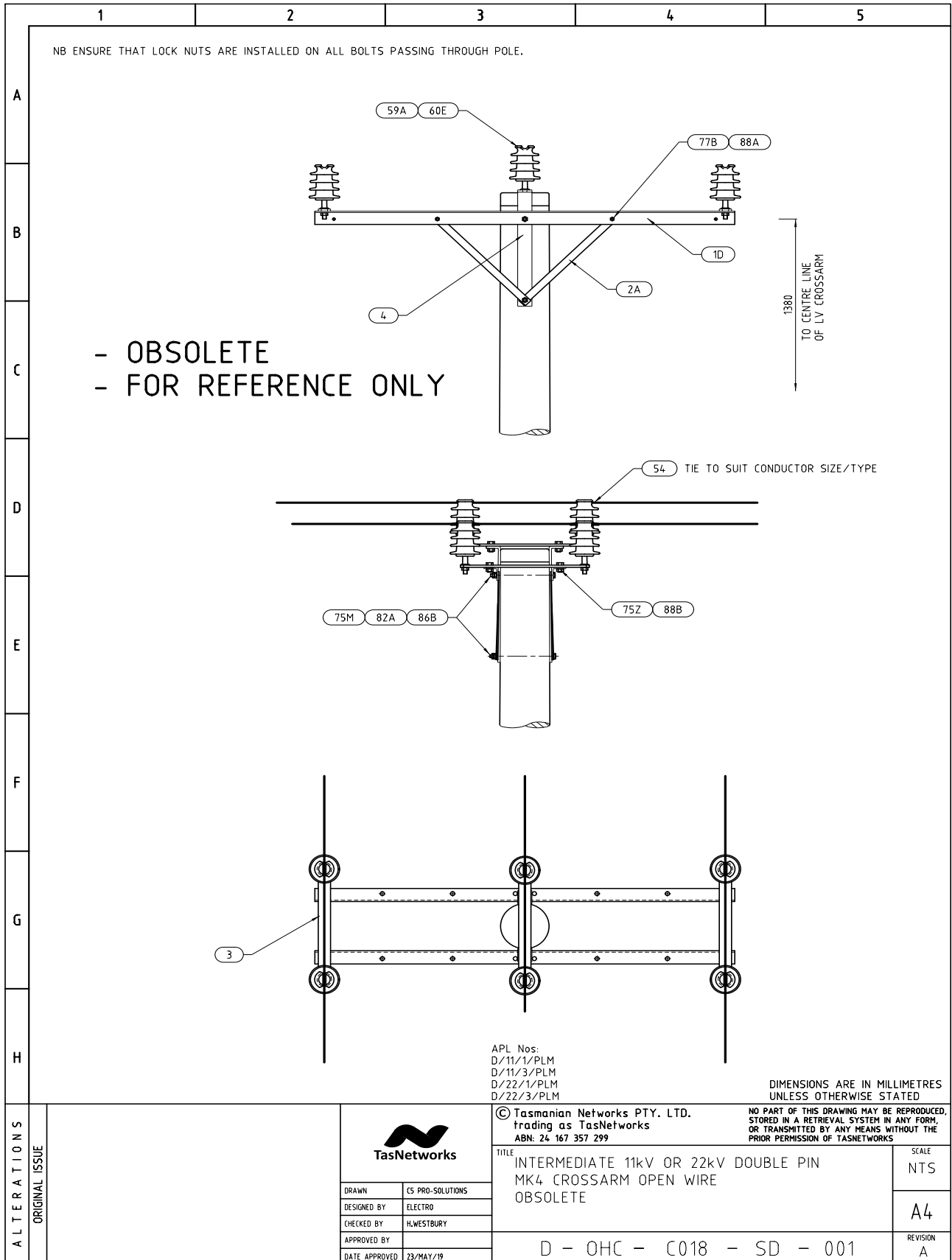
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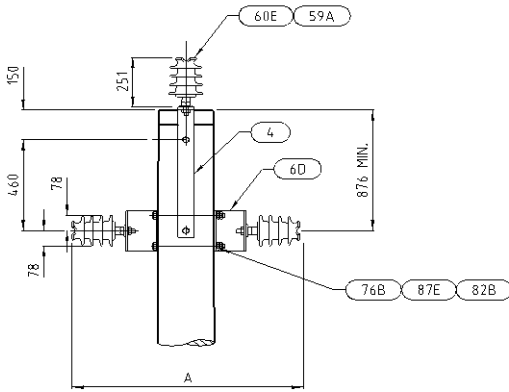
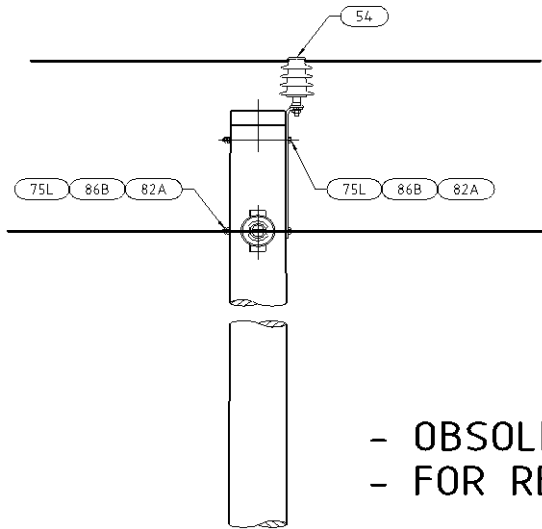

### 3.1 Intermediate Double Pin Open Wire Mk4 Crossarm (Obsolete)




Intermediate Double Pin Open Wire Mk4 Crossarm - Material List (Obsolete)

|   | 1   | 2  | 3                | 4   | 5       |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
|---|---|--|------------------|---|---------|---------------|------------|-------------|------------------------|------------------------|-----------|---|---|--|--------|-------------------|---|---|--------|----------------|---|----|--------|--------------|---|-----|--------|---------------------|---|-----|--------|----------------------|---|-----|-------|--------------------|---|-----|-------|-------------------|---|-----|-------|---------------------|---|-----|-------|---------|---|-----|-------|-----------------|---|------------------------------|---|---|--------|-------------------|---|---|--------|----------------|---|----|--------|--------------|---|-----|--------|---------------------|---|-----|--------|----------------------|---|-----|-------|--------------------|---|-----|-------|-------------------|---|-----|-------|---------------------|---|-----|-------|---------|---|-----|-------|-----------------|---|-----|-------|-----------------|---|----|--------|---------------------|---|--|--|--|--|--|--|--|--|
| A   | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Unit Assembly</th> <th style="width: 5%;">Store Type</th> <th style="width: 10%;">Item Ref</th> <th style="width: 10%;">Stock Item</th> <th style="width: 45%;">Stock Item Description</th> <th style="width: 10%;">Quantity</th> </tr> </thead> <tbody> <tr> <td rowspan="10">D/11/1/PLM and<br/>D/22/1/PLM</td> <td rowspan="10">S</td> <td>3</td> <td>323310</td> <td>Strain Plate Mk10</td> <td>2</td> </tr> <tr> <td>4</td> <td>323311</td> <td>L Bracket Mk11</td> <td>2</td> </tr> <tr> <td>1D</td> <td>323304</td> <td>Crossarm Mk4</td> <td>2</td> </tr> <tr> <td>59A</td> <td>322721</td> <td>Pin, Insulator 22kV</td> <td>4</td> </tr> <tr> <td>60E</td> <td>320531</td> <td>Insulator Pin 22/450</td> <td>4</td> </tr> <tr> <td>75M</td> <td>32287</td> <td>Bolt Hex M16 X 325</td> <td>2</td> </tr> <tr> <td>75Z</td> <td>32261</td> <td>Bolt Hex M16 X 45</td> <td>8</td> </tr> <tr> <td>77B</td> <td>33771</td> <td>Bolt Tower M12 X 35</td> <td>4</td> </tr> <tr> <td>82A</td> <td>40441</td> <td>Nut M16</td> <td>4</td> </tr> <tr> <td>88A</td> <td>66412</td> <td>Washer Tower 12</td> <td>4</td> </tr> <tr> <td rowspan="10">D/11/3/PLM and<br/>D/22/3/PLM</td> <td rowspan="10">S</td> <td>3</td> <td>323310</td> <td>Strain Plate Mk10</td> <td>3</td> </tr> <tr> <td>4</td> <td>323311</td> <td>L Bracket Mk11</td> <td>2</td> </tr> <tr> <td>1D</td> <td>323304</td> <td>Crossarm Mk4</td> <td>2</td> </tr> <tr> <td>59A</td> <td>322721</td> <td>Pin, Insulator 22kV</td> <td>6</td> </tr> <tr> <td>60E</td> <td>320531</td> <td>Insulator Pin 22/450</td> <td>6</td> </tr> <tr> <td>75M</td> <td>32287</td> <td>Bolt Hex M16 X 325</td> <td>2</td> </tr> <tr> <td>75Z</td> <td>32261</td> <td>Bolt Hex M16 X 45</td> <td>6</td> </tr> <tr> <td>77B</td> <td>33771</td> <td>Bolt Tower M12 X 35</td> <td>4</td> </tr> <tr> <td>82A</td> <td>40441</td> <td>Nut M16</td> <td>4</td> </tr> <tr> <td>88A</td> <td>66412</td> <td>Washer Tower 12</td> <td>4</td> </tr> <tr> <td>88B</td> <td>66413</td> <td>Washer Tower 16</td> <td>6</td> </tr> <tr> <td>2A</td> <td>323314</td> <td>Crossarm Strap Mk14</td> <td>4</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> |  |                  |   |         | Unit Assembly | Store Type | Item Ref    | Stock Item             | Stock Item Description | Quantity  | D/11/1/PLM and<br>D/22/1/PLM  | S | 3  | 323310 | Strain Plate Mk10 | 2 | 4 | 323311 | L Bracket Mk11 | 2 | 1D | 323304 | Crossarm Mk4 | 2 | 59A | 322721 | Pin, Insulator 22kV | 4 | 60E | 320531 | Insulator Pin 22/450 | 4 | 75M | 32287 | Bolt Hex M16 X 325 | 2 | 75Z | 32261 | Bolt Hex M16 X 45 | 8 | 77B | 33771 | Bolt Tower M12 X 35 | 4 | 82A | 40441 | Nut M16 | 4 | 88A | 66412 | Washer Tower 12 | 4 | D/11/3/PLM and<br>D/22/3/PLM | S | 3 | 323310 | Strain Plate Mk10 | 3 | 4 | 323311 | L Bracket Mk11 | 2 | 1D | 323304 | Crossarm Mk4 | 2 | 59A | 322721 | Pin, Insulator 22kV | 6 | 60E | 320531 | Insulator Pin 22/450 | 6 | 75M | 32287 | Bolt Hex M16 X 325 | 2 | 75Z | 32261 | Bolt Hex M16 X 45 | 6 | 77B | 33771 | Bolt Tower M12 X 35 | 4 | 82A | 40441 | Nut M16 | 4 | 88A | 66412 | Washer Tower 12 | 4 | 88B | 66413 | Washer Tower 16 | 6 | 2A | 323314 | Crossarm Strap Mk14 | 4 |  |  |  |  |  |  |  |  |
| Unit Assembly   |   |  |                  |   |         | Store Type    | Item Ref   | Stock Item  | Stock Item Description | Quantity               |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
| D/11/1/PLM and<br>D/22/1/PLM  |   |  |                  |   |         | S             | 3          | 323310      | Strain Plate Mk10      | 2                      |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
|   |   |  |                  |   |         |               | 4          | 323311      | L Bracket Mk11         | 2                      |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
|   |   |  |                  |   |         |               | 1D         | 323304      | Crossarm Mk4           | 2                      |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
|   |   |  |                  |   |         |               | 59A        | 322721      | Pin, Insulator 22kV    | 4                      |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
|   |   |  |                  |   |         |               | 60E        | 320531      | Insulator Pin 22/450   | 4                      |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
|   |   |  |                  |   |         |               | 75M        | 32287       | Bolt Hex M16 X 325     | 2                      |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
|   |   |  |                  |   |         |               | 75Z        | 32261       | Bolt Hex M16 X 45      | 8                      |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
|   |   |  |                  |   |         |               | 77B        | 33771       | Bolt Tower M12 X 35    | 4                      |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
|   |   |  |                  |   |         |               | 82A        | 40441       | Nut M16                | 4                      |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
|   |   |  |                  |   |         |               | 88A        | 66412       | Washer Tower 12        | 4                      |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
| D/11/3/PLM and<br>D/22/3/PLM  |   |  |                  |   |         | S             | 3          | 323310      | Strain Plate Mk10      | 3                      |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
|   |   |  |                  |   |         |               | 4          | 323311      | L Bracket Mk11         | 2                      |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
|   |   |  |                  |   |         |               | 1D         | 323304      | Crossarm Mk4           | 2                      |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
|   |   |  |                  |   |         |               | 59A        | 322721      | Pin, Insulator 22kV    | 6                      |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
|   |   |  |                  |   |         |               | 60E        | 320531      | Insulator Pin 22/450   | 6                      |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
|   |   |  |                  |   |         |               | 75M        | 32287       | Bolt Hex M16 X 325     | 2                      |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
|   |   |  |                  |   |         |               | 75Z        | 32261       | Bolt Hex M16 X 45      | 6                      |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
|   |   |  |                  |   |         |               | 77B        | 33771       | Bolt Tower M12 X 35    | 4                      |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
|   | 82A   | 40441  | Nut M16          | 4   |         |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
|   | 88A   | 66412  | Washer Tower 12  | 4   |         |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
| 88B   | 66413   | Washer Tower 16  | 6                |   |         |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
| 2A  | 323314  | Crossarm Strap Mk14  | 4                |   |         |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
|   |   |  |                  |   |         |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
| B   |   |  |                  |   |         |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
| C   |   |  |                  |   |         |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
| D   |   |  |                  |   |         |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
| E   |   |  |                  |   |         |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
| F   |   |  |                  |   |         |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
| G   |   |  |                  |   |         |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
| H   |   |  |                  |   |         |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
| <p>- OBSOLETE<br/>- FOR REFERENCE ONLY</p>  |   |  |                  |   |         |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
| <p>ALTERATIONS</p>  |   |  |                  |   |         |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
| <p>ORIGINAL ISSUE</p>   |   |  |                  |   |         |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
|    |   | <p>© Tasmanian Networks PTY. LTD.<br/>trading as TasNetworks<br/>ABN: 24 167 357 299</p> |                  | <p>NO PART OF THIS DRAWING MAY BE REPRODUCED,<br/>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br/>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br/>PRIOR PERMISSION OF TASNETWORKS</p> |         |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DRAWN</td> <td style="width: 50%;">CS PRO-SOLUTIONS</td> </tr> <tr> <td>DESIGNED BY</td> <td>ELECTRO</td> </tr> <tr> <td>CHECKED BY</td> <td>H.WESTBURY</td> </tr> <tr> <td>APPROVED BY</td> <td>-</td> </tr> <tr> <td>DATE APPROVED</td> <td>23/MAY/19</td> </tr> </table> |   | DRAWN  | CS PRO-SOLUTIONS | DESIGNED BY   | ELECTRO | CHECKED BY    | H.WESTBURY | APPROVED BY | -                      | DATE APPROVED          | 23/MAY/19 | <p>TITLE</p> <p>INTERMEDIATE 11kV OR 22kV DOUBLE PIN<br/>MK4 CROSSARM OPEN WIRE<br/>MATERIALS LIST<br/>OBSOLETE</p> |   | <p>SCALE</p> <p>NTS</p> <p>A4</p> <p>REVISION</p> <p>A</p> |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
| DRAWN   | CS PRO-SOLUTIONS  |  |                  |   |         |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
| DESIGNED BY   | ELECTRO   |  |                  |   |         |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
| CHECKED BY  | H.WESTBURY  |  |                  |   |         |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
| APPROVED BY   | -   |  |                  |   |         |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
| DATE APPROVED   | 23/MAY/19   |  |                  |   |         |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |
|   |   | <p>D - OHC - C018 - SD - 002</p>   |                  |   |         |               |            |             |                        |                        |           |   |   |  |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |                              |   |   |        |                   |   |   |        |                |   |    |        |              |   |     |        |                     |   |     |        |                      |   |     |       |                    |   |     |       |                   |   |     |       |                     |   |     |       |         |   |     |       |                 |   |     |       |                 |   |    |        |                     |   |  |  |  |  |  |  |  |  |

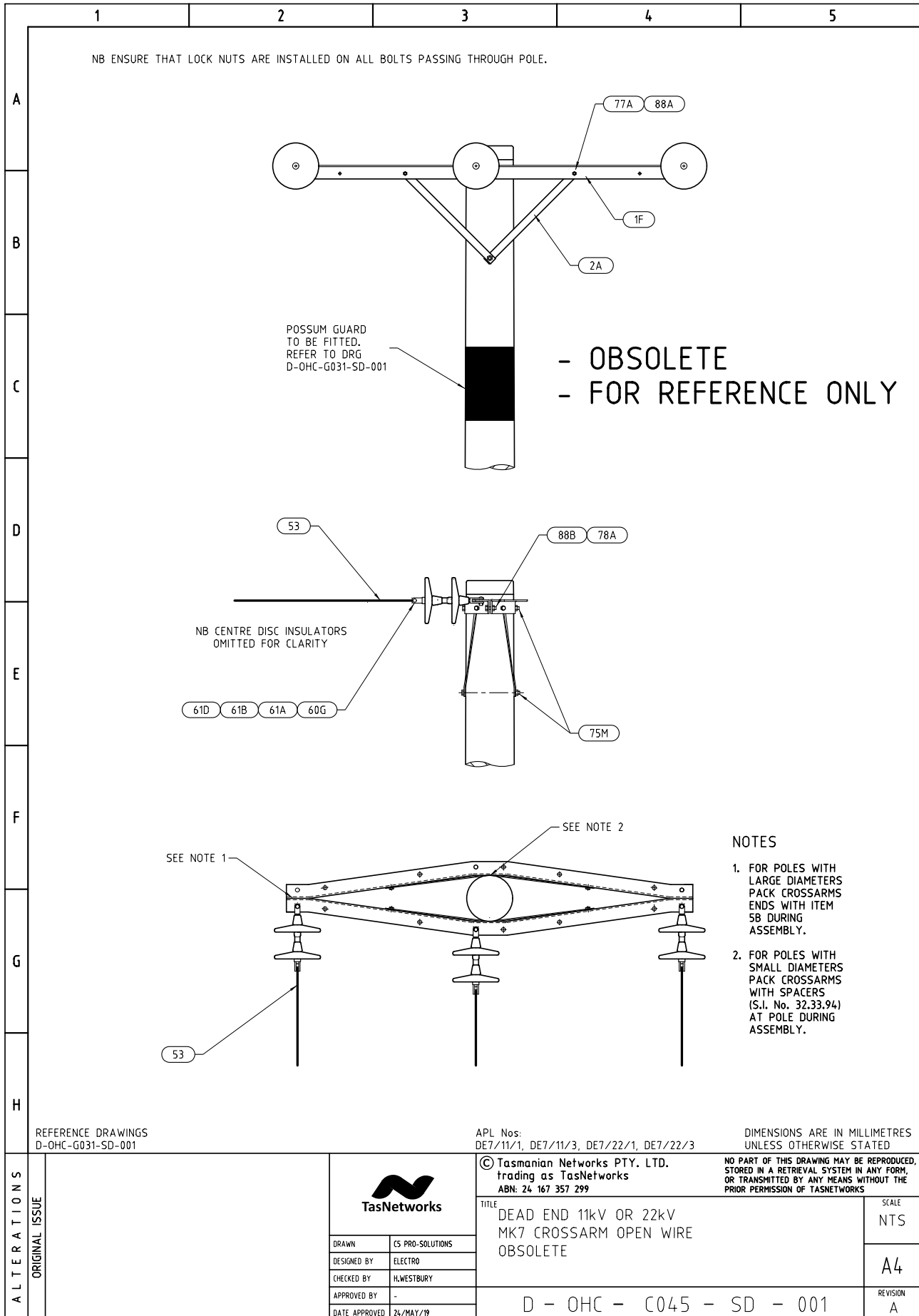
### 3.2 Intermediate Trident Open Wire (Obsolete)

|               | 1  | 2   | 3                                | 4   | 5                     |           |               |                  |                |               |               |           |   |     |                      |         |     |   |   |      |         |     |   |   |      |
|---------------|--|---|----------------------------------|---|-----------------------|-----------|---------------|------------------|----------------|---------------|---------------|-----------|---|-----|----------------------|---------|-----|---|---|------|---------|-----|---|---|------|
| A             | <p>NB ENSURE THAT LOCK NUTS ARE INSTALLED ON ALL BOLTS PASSING THROUGH POLE.</p>   |   |                                  |   |                       |           |               |                  |                |               |               |           |   |     |                      |         |     |   |   |      |         |     |   |   |      |
| B             |  |   |                                  |   |                       |           |               |                  |                |               |               |           |   |     |                      |         |     |   |   |      |         |     |   |   |      |
| C             |  |   |                                  |   |                       |           |               |                  |                |               |               |           |   |     |                      |         |     |   |   |      |         |     |   |   |      |
| D             | <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>POLE TYPE</th> <th>POLE DIAMETER</th> <th>INSULATOR HEIGHT</th> <th>BRACKET HEIGHT</th> <th>DIMENSION 'A'</th> </tr> </thead> <tbody> <tr> <td>12m 4kN</td> <td>250</td> <td>235</td> <td>150</td> <td>1020</td> </tr> <tr> <td>12m 6kN</td> <td>280</td> <td>"</td> <td>"</td> <td>1050</td> </tr> <tr> <td>12m 8kN</td> <td>310</td> <td>"</td> <td>"</td> <td>1080</td> </tr> </tbody> </table> <p>MINIMUM CONDUCTOR SEPARATION = 1020mm<br/>                 MAXIMUM CONDUCTOR SEPARATION = 1080mm</p> |   |                                  |   |                       | POLE TYPE | POLE DIAMETER | INSULATOR HEIGHT | BRACKET HEIGHT | DIMENSION 'A' | 12m 4kN       | 250       | 235   | 150 | 1020                 | 12m 6kN | 280 | " | " | 1050 | 12m 8kN | 310 | " | " | 1080 |
| POLE TYPE     | POLE DIAMETER  | INSULATOR HEIGHT  | BRACKET HEIGHT                   | DIMENSION 'A'   |                       |           |               |                  |                |               |               |           |   |     |                      |         |     |   |   |      |         |     |   |   |      |
| 12m 4kN       | 250  | 235   | 150                              | 1020  |                       |           |               |                  |                |               |               |           |   |     |                      |         |     |   |   |      |         |     |   |   |      |
| 12m 6kN       | 280  | "   | "                                | 1050  |                       |           |               |                  |                |               |               |           |   |     |                      |         |     |   |   |      |         |     |   |   |      |
| 12m 8kN       | 310  | "   | "                                | 1080  |                       |           |               |                  |                |               |               |           |   |     |                      |         |     |   |   |      |         |     |   |   |      |
| E             |   |   |                                  |   |                       |           |               |                  |                |               |               |           |   |     |                      |         |     |   |   |      |         |     |   |   |      |
| F             |  |   |                                  |   |                       |           |               |                  |                |               |               |           |   |     |                      |         |     |   |   |      |         |     |   |   |      |
| G             | <p>- OBSOLETE<br/>- FOR REFERENCE ONLY</p>   |   |                                  |   |                       |           |               |                  |                |               |               |           |   |     |                      |         |     |   |   |      |         |     |   |   |      |
| H             |  |   |                                  |   |                       |           |               |                  |                |               |               |           |   |     |                      |         |     |   |   |      |         |     |   |   |      |
| ALTERATIONS   | ORIGINAL ISSUE   |    |                                  | <p>APL Nos: 1xxl/11/1, xxl/11/3, xxl/22/1, xxl/22/3</p> <p>© Tasmanian Networks PTY. LTD.<br/>Trading as TasNetworks<br/>ABN: 24 167 357 299</p> <p>DIMENSIONS ARE IN MILLIMETRES<br/>UNLESS OTHERWISE STATED</p> <p>NO PART OF THIS DRAWING MAY BE REPRODUCED,<br/>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br/>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br/>PRIOR PERMISSION OF TASNETWORKS</p> |                       |           |               |                  |                |               |               |           |   |     |                      |         |     |   |   |      |         |     |   |   |      |
|               |  | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: small;">DRAWN</td> <td style="font-size: small;">CS PRO-SOLUTIONS</td> </tr> <tr> <td style="font-size: small;">DESIGNED BY</td> <td style="font-size: small;">ELECTRO</td> </tr> <tr> <td style="font-size: small;">CHECKED BY</td> <td style="font-size: small;">H.WESTBURY</td> </tr> <tr> <td style="font-size: small;">APPROVED BY</td> <td style="font-size: small;">-</td> </tr> <tr> <td style="font-size: small;">DATE APPROVED</td> <td style="font-size: small;">24/MAY/19</td> </tr> </table> | DRAWN                            | CS PRO-SOLUTIONS  | DESIGNED BY           | ELECTRO   | CHECKED BY    | H.WESTBURY       | APPROVED BY    | -             | DATE APPROVED | 24/MAY/19 | <p>TITLE<br/>TRIDENT INTERMEDIATE 11kV OR 22kV<br/>SPACER BRACKETS OPEN WIRE<br/>OBSOLETE</p> |     | <p>SCALE<br/>NTS</p> |         |     |   |   |      |         |     |   |   |      |
| DRAWN         | CS PRO-SOLUTIONS   |   |                                  |   |                       |           |               |                  |                |               |               |           |   |     |                      |         |     |   |   |      |         |     |   |   |      |
| DESIGNED BY   | ELECTRO  |   |                                  |   |                       |           |               |                  |                |               |               |           |   |     |                      |         |     |   |   |      |         |     |   |   |      |
| CHECKED BY    | H.WESTBURY   |   |                                  |   |                       |           |               |                  |                |               |               |           |   |     |                      |         |     |   |   |      |         |     |   |   |      |
| APPROVED BY   | -  |   |                                  |   |                       |           |               |                  |                |               |               |           |   |     |                      |         |     |   |   |      |         |     |   |   |      |
| DATE APPROVED | 24/MAY/19  |   |                                  |   |                       |           |               |                  |                |               |               |           |   |     |                      |         |     |   |   |      |         |     |   |   |      |
|               |  |   | <p>D - OHC - C042 - SD - 001</p> |   | <p>REVISION<br/>A</p> |           |               |                  |                |               |               |           |   |     |                      |         |     |   |   |      |         |     |   |   |      |


Intermediate Trident Open Wire – Material List (Obsolete)

|  | 1  | 2                | 3           | 4                        | 5          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
|--|--|------------------|-------------|--------------------------|------------|---------------|-------------|------------|--------------------------|-------------|----------|---------|---|-----|--------|--------------------|---|---------|---|-----|--------|--------------------|---|---------|---|----|--------|--------------------------|---|---------|---|---|--------|----|---|---------|---|-----|--------|---------------|---|---------|---|-----|--------|---------------|---|---------|---|-----|--------|----------------|---|---------|---|-----|--------|---------------|---|---------|---|-----|--------|---------|---|---------|---|-----|--------|---------|---|--|--|--|--|--|--|---------|---|-----|--------|--------------------|---|---------|---|-----|--------|--------------------|---|---------|---|----|--------|--------------------------|---|---------|---|---|--------|----|---|---------|---|-----|--------|---------------|---|---------|---|-----|--------|---------------|---|---------|---|-----|-------|----------------|---|---------|---|-----|--------|---------------|---|---------|---|-----|--------|---------|---|---------|---|-----|--------|---------|---|--|--|--|--|--|--|---------|---|-----|--------|--------------------|---|---------|---|-----|-------|--------------------|---|---------|---|----|--------|--------------------------|---|---------|---|---|--------|----|---|---------|---|-----|--------|---------------|---|---------|---|-----|--------|---------------|---|---------|---|-----|--------|----------------|---|---------|---|-----|--------|---------------|---|---------|---|-----|-------|---------|---|---------|---|-----|--------|---------|---|--|--|--|--|--|--|---------|---|-----|--------|--------------------|---|---------|---|-----|-------|--------------------|---|---------|---|----|--------|--------------------------|---|---------|---|---|--------|----|---|---------|---|-----|--------|---------------|---|---------|---|-----|--------|---------------|---|---------|---|-----|-------|----------------|---|---------|---|-----|-------|---------------|---|---------|---|-----|-------|---------|---|---------|---|-----|--------|---------|---|--|--|--|--|--|--|
| A  | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr><td>IT/11/1</td><td>S</td><td>76B</td><td>032346</td><td>Bolt Hex M20 X 350</td><td>2</td></tr> <tr><td>IT/11/1</td><td>S</td><td>75L</td><td>032286</td><td>Bolt Hex M16 X 300</td><td>2</td></tr> <tr><td>IT/11/1</td><td>S</td><td>6D</td><td>323399</td><td>Insulator Raiser Bracket</td><td>2</td></tr> <tr><td>IT/11/1</td><td>S</td><td>4</td><td>323311</td><td>L'</td><td>1</td></tr> <tr><td>IT/11/1</td><td>S</td><td>60E</td><td>320531</td><td>Insulator,Pin</td><td>3</td></tr> <tr><td>IT/11/1</td><td>S</td><td>59A</td><td>322721</td><td>Pin,Insulator</td><td>3</td></tr> <tr><td>IT/11/1</td><td>S</td><td>87E</td><td>065617</td><td>Washer N.S. 20</td><td>2</td></tr> <tr><td>IT/11/1</td><td>S</td><td>86B</td><td>065158</td><td>Washer ELS 16</td><td>2</td></tr> 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| 82A | 040441 | Nut M16 | 4 |  |  |  |  |  |  | IT/11/3 | S | 76B | 032346 | Bolt Hex M20 X 350 | 2 | IT/11/3 | S | 75L | 032286 | Bolt Hex M16 X 300 | 2 | IT/11/3 | S | 6D | 323399 | Insulator Raiser Bracket | 2 | IT/11/3 | S | 4 | 323311 | L' | 1 | IT/11/3 | S | 60E | 320531 | Insulator,Pin | 3 | IT/11/3 | S | 59A | 322721 | Pin,Insulator | 3 | IT/11/3 | S | 87E | 65617 | Washer N.S. 20 | 2 | IT/11/3 | S | 86B | 065158 | Washer ELS 16 | 2 | IT/11/3 | S | 82B | 040442 | Nut M20 | 4 | IT/11/3 | S | 82A | 040441 | Nut M16 | 4 |  |  |  |  |  |  | IT/22/1 | S | 76B | 032346 | Bolt Hex M20 X 350 | 2 | IT/22/1 | S | 75L | 32286 | Bolt Hex M16 X 300 | 2 | IT/22/1 | S | 6D | 323399 | Insulator Raiser Bracket | 2 | IT/22/1 | S | 4 | 323311 | L' | 1 | IT/22/1 | S | 60E | 320531 | Insulator,Pin | 3 | IT/22/1 | S | 59A | 322721 | Pin,Insulator | 3 | IT/22/1 | S | 87E | 065617 | Washer N.S. 20 | 2 | IT/22/1 | S | 86B | 065158 | Washer ELS 16 | 2 | IT/22/1 | S | 82B | 40442 | Nut M20 | 4 | IT/22/1 | S | 82A | 040441 | Nut M16 | 4 |  |  |  |  |  |  | IT/22/3 | S | 76B | 032346 | Bolt Hex M20 X 350 | 2 | IT/22/3 | S | 75L | 32286 | Bolt Hex M16 X 300 | 2 | IT/22/3 | S | 6D | 323399 | Insulator Raiser Bracket | 2 | IT/22/3 | S | 4 | 323311 | L' | 1 | IT/22/3 | S | 60E | 320531 | Insulator,Pin | 3 | IT/22/3 | S | 59A | 322721 | Pin,Insulator | 3 | IT/22/3 | S | 87E | 65617 | Washer N.S. 20 | 2 | IT/22/3 | S | 86B | 65158 | Washer ELS 16 | 2 | IT/22/3 | S | 82B | 40442 | Nut M20 | 4 | IT/22/3 | S | 82A | 040441 | Nut M16 | 4 |  |  |  |  |  |  |
| Unit Assembly  |  |                  |             |                          |            | Store Type    | Item Ref    | Stock Item | Description              | Quantity    |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/11/1  |  |                  |             |                          |            | S             | 76B         | 032346     | Bolt Hex M20 X 350       | 2           |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/11/1  |  |                  |             |                          |            | S             | 75L         | 032286     | Bolt Hex M16 X 300       | 2           |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/11/1  |  |                  |             |                          |            | S             | 6D          | 323399     | Insulator Raiser Bracket | 2           |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/11/1  |  |                  |             |                          |            | S             | 4           | 323311     | L'                       | 1           |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/11/1  |  |                  |             |                          |            | S             | 60E         | 320531     | Insulator,Pin            | 3           |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/11/1  |  |                  |             |                          |            | S             | 59A         | 322721     | Pin,Insulator            | 3           |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/11/1  |  |                  |             |                          |            | S             | 87E         | 065617     | Washer N.S. 20           | 2           |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/11/1  |  |                  |             |                          |            | S             | 86B         | 065158     | Washer ELS 16            | 2           |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/11/1  |  |                  |             |                          |            | S             | 82B         | 040442     | Nut M20                  | 4           |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/11/1  |  |                  |             |                          |            | S             | 82A         | 040441     | Nut M16                  | 4           |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
|  |  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/11/3  |  |                  |             |                          |            | S             | 76B         | 032346     | Bolt Hex M20 X 350       | 2           |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/11/3  |  |                  |             |                          |            | S             | 75L         | 032286     | Bolt Hex M16 X 300       | 2           |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/11/3  |  |                  |             |                          |            | S             | 6D          | 323399     | Insulator Raiser Bracket | 2           |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/11/3  |  |                  |             |                          |            | S             | 4           | 323311     | L'                       | 1           |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/11/3  |  |                  |             |                          |            | S             | 60E         | 320531     | Insulator,Pin            | 3           |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/11/3  | S  | 59A              | 322721      | Pin,Insulator            | 3          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/11/3  | S  | 87E              | 65617       | Washer N.S. 20           | 2          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/11/3  | S  | 86B              | 065158      | Washer ELS 16            | 2          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/11/3  | S  | 82B              | 040442      | Nut M20                  | 4          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/11/3  | S  | 82A              | 040441      | Nut M16                  | 4          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
|  |  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/22/1  | S  | 76B              | 032346      | Bolt Hex M20 X 350       | 2          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/22/1  | S  | 75L              | 32286       | Bolt Hex M16 X 300       | 2          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/22/1  | S  | 6D               | 323399      | Insulator Raiser Bracket | 2          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/22/1  | S  | 4                | 323311      | L'                       | 1          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/22/1  | S  | 60E              | 320531      | Insulator,Pin            | 3          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/22/1  | S  | 59A              | 322721      | Pin,Insulator            | 3          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/22/1  | S  | 87E              | 065617      | Washer N.S. 20           | 2          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/22/1  | S  | 86B              | 065158      | Washer ELS 16            | 2          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/22/1  | S  | 82B              | 40442       | Nut M20                  | 4          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/22/1  | S  | 82A              | 040441      | Nut M16                  | 4          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
|  |  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/22/3  | S  | 76B              | 032346      | Bolt Hex M20 X 350       | 2          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/22/3  | S  | 75L              | 32286       | Bolt Hex M16 X 300       | 2          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/22/3  | S  | 6D               | 323399      | Insulator Raiser Bracket | 2          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/22/3  | S  | 4                | 323311      | L'                       | 1          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/22/3  | S  | 60E              | 320531      | Insulator,Pin            | 3          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/22/3  | S  | 59A              | 322721      | Pin,Insulator            | 3          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/22/3  | S  | 87E              | 65617       | Washer N.S. 20           | 2          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/22/3  | S  | 86B              | 65158       | Washer ELS 16            | 2          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/22/3  | S  | 82B              | 40442       | Nut M20                  | 4          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| IT/22/3  | S  | 82A              | 040441      | Nut M16                  | 4          |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
|  |  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| B  |  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| C  |  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| D  |  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| E  |  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| F  |  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| G  |  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| H  |  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| <p>- OBSOLETE<br/>- FOR REFERENCE ONLY</p>   |  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| <p>ALTERATIONS</p>   |  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| <p>ORIGINAL ISSUE</p>  |  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
|   |  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| <p>© Tasmanian Networks PTY. LTD.<br/>trading as TasNetworks<br/>ABN: 24 167 357 299</p>   |  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| <p>NO PART OF THIS DRAWING MAY BE REPRODUCED,<br/>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br/>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br/>PRIOR PERMISSION OF TASNETWORKS</p>  |  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">DRAWN</td> <td style="width:50%;">CS PRO-SOLUTIONS</td> </tr> <tr> <td>DESIGNED BY</td> <td>ELECTRO</td> </tr> <tr> <td>CHECKED BY</td> <td>H.WESTBURY</td> </tr> <tr> <td>APPROVED BY</td> <td>-</td> </tr> <tr> <td>DATE APPROVED</td> <td>24/MAY/19</td> </tr> </table> | DRAWN  | CS PRO-SOLUTIONS | DESIGNED BY | ELECTRO                  | CHECKED BY | H.WESTBURY    | APPROVED BY | -          | DATE APPROVED            | 24/MAY/19   |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| DRAWN  | CS PRO-SOLUTIONS   |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| DESIGNED BY  | ELECTRO  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| CHECKED BY   | H.WESTBURY   |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| APPROVED BY  | -  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| DATE APPROVED  | 24/MAY/19  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| <p>TITLE</p> <p>TRIDENT INTERMEDIATE 11kV OR 22kV<br/>SPACER BRACKETS OPEN WIRE<br/>MATERIALS LIST<br/>OBSOLETE</p>  |  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| <p>SCALE</p> <p>NTS</p>  |  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| <p>A4</p>  |  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| <p>REVISION</p> <p>A</p>   |  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |
| <p>D - OHC - C042 - SD - 002</p>   |  |                  |             |                          |            |               |             |            |                          |             |          |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |        |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |        |               |   |         |   |     |        |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |        |                |   |         |   |     |        |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |         |   |     |        |                    |   |         |   |     |       |                    |   |         |   |    |        |                          |   |         |   |   |        |    |   |         |   |     |        |               |   |         |   |     |        |               |   |         |   |     |       |                |   |         |   |     |       |               |   |         |   |     |       |         |   |         |   |     |        |         |   |  |  |  |  |  |  |

### 3.3 Dead End, Open Wire, Mk7 Crossarm (Obsolete)

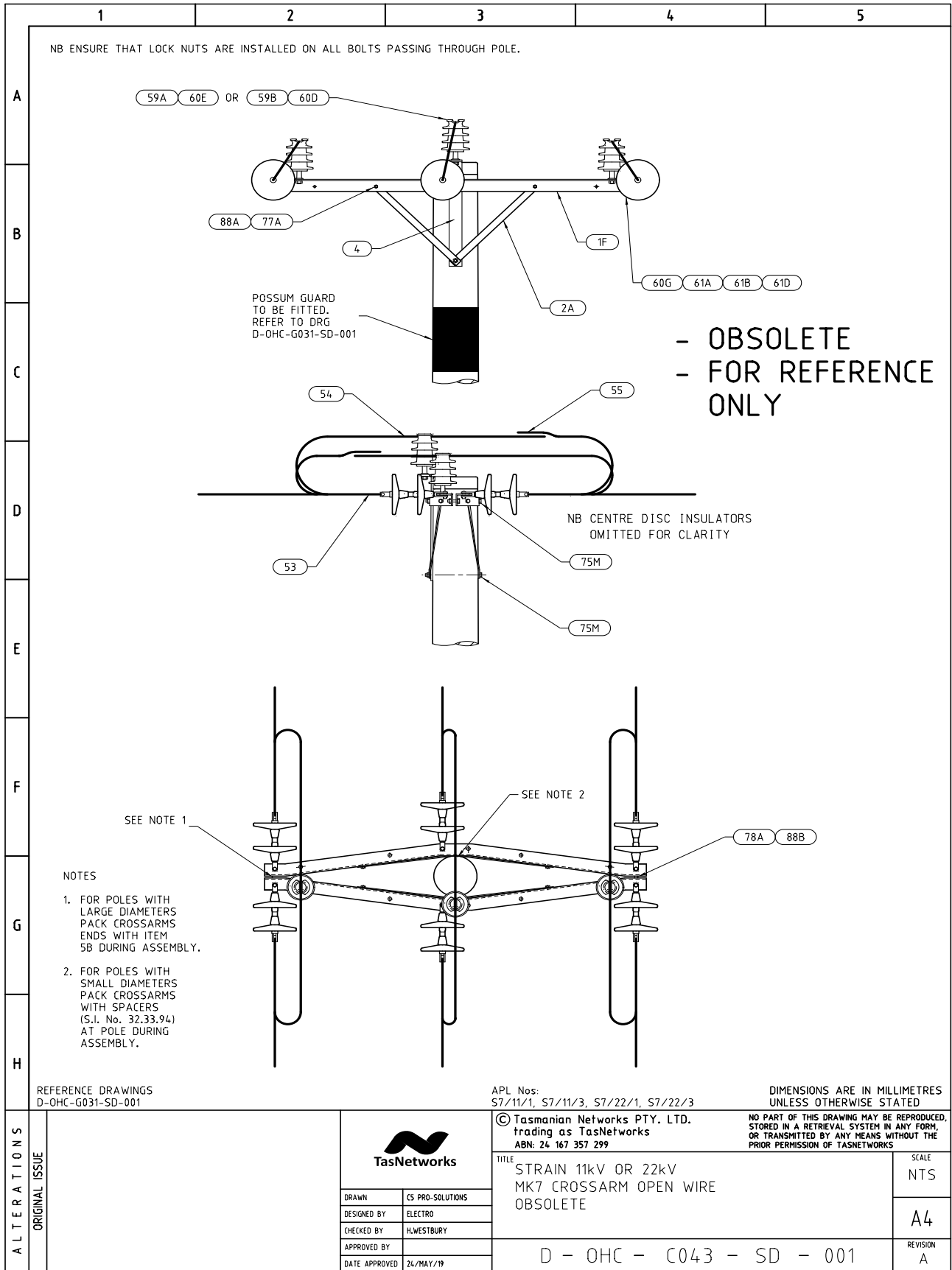


Dead End, Open Wire, Mk7 Crossarm - Material List (Obsolete)


|               | 1   | 2  | 3  | 4   | 5   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
|---------------|---|--|--|---|---|---------------|------------|------------|---------------------|-------------|----------|----------|---|-----|--------|--------------------|---|----------|---|-----|--------|---------------------|---|----------|---|-----|--------|---------------------|---|----------|---|-----|--------|-----------------|---|----------|---|-----|--------|-----------------|---|----------|---|-----|--------|-----------------|---|----------|---|-----|--------|-------------------|---|----------|---|-----|--------|----------|---|----------|---|-----|--------|--------------------|---|----------|---|----|--------|--------------|---|----------|---|----|--------|---------------------|---|----------|---|----|--------|-----------------|---|--|--|--|--|--|--|----------|---|-----|--------|--------------------|---|----------|---|-----|--------|---------------------|---|----------|---|-----|--------|---------------------|---|----------|---|-----|--------|-----------------|---|----------|---|-----|--------|-----------------|---|----------|---|-----|--------|-----------------|---|----------|---|-----|--------|-------------------|---|----------|---|-----|--------|----------|---|----------|---|-----|--------|--------------------|---|----------|---|----|--------|--------------|---|----------|---|----|--------|---------------------|---|----------|---|----|--------|-----------------|---|--|--|--|--|--|--|----------|---|-----|--------|--------------------|---|----------|---|-----|--------|---------------------|---|----------|---|-----|--------|---------------------|---|----------|---|-----|--------|-----------------|---|----------|---|-----|--------|-----------------|---|----------|---|-----|--------|-----------------|---|----------|---|-----|--------|-------------------|---|----------|---|-----|--------|----------|---|----------|---|-----|--------|--------------------|---|----------|---|----|--------|--------------|---|----------|---|----|--------|---------------------|---|----------|---|----|--------|-----------------|---|--|--|--|--|--|--|----------|---|-----|--------|--------------------|---|----------|---|-----|--------|---------------------|---|----------|---|-----|--------|---------------------|---|----------|---|-----|--------|-----------------|---|----------|---|-----|--------|-----------------|---|----------|---|-----|--------|-----------------|---|----------|---|-----|--------|-------------------|---|----------|---|-----|--------|----------|---|----------|---|-----|--------|--------------------|---|----------|---|----|--------|--------------|---|----------|---|----|--------|---------------------|---|----------|---|----|--------|-----------------|---|
| A             | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr><td>DE7/11/1</td><td>S</td><td>75M</td><td>032287</td><td>Bolt Hex M16 X 325</td><td>2</td></tr> <tr><td>DE7/11/1</td><td>S</td><td>77A</td><td>033770</td><td>Bolt Tower M12 X 30</td><td>4</td></tr> <tr><td>DE7/11/1</td><td>S</td><td>78B</td><td>033781</td><td>Bolt Tower M16 X 40</td><td>4</td></tr> <tr><td>DE7/11/1</td><td>S</td><td>88A</td><td>066412</td><td>Washer Tower 12</td><td>4</td></tr> <tr><td>DE7/11/1</td><td>S</td><td>88B</td><td>066413</td><td>Washer Tower 16</td><td>4</td></tr> <tr><td>DE7/11/1</td><td>S</td><td>60G</td><td>321260</td><td>Insulator, Disc</td><td>2</td></tr> <tr><td>DE7/11/1</td><td>S</td><td>61A</td><td>322056</td><td>Ball Clevis &amp; Pin</td><td>2</td></tr> <tr><td>DE7/11/1</td><td>S</td><td>61D</td><td>322090</td><td>Kink Pin</td><td>2</td></tr> <tr><td>DE7/11/1</td><td>S</td><td>61B</td><td>322386</td><td>Socket Termination</td><td>2</td></tr> <tr><td>DE7/11/1</td><td>S</td><td>1F</td><td>323307</td><td>Crossarm Mk7</td><td>2</td></tr> <tr><td>DE7/11/1</td><td>S</td><td>2A</td><td>323314</td><td>Crossarm Strap Mk14</td><td>4</td></tr> <tr><td>DE7/11/1</td><td>S</td><td>5B</td><td>323394</td><td>Crossarm Spacer</td><td>2</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>DE7/11/3</td><td>S</td><td>75M</td><td>032287</td><td>Bolt Hex M16 X 325</td><td>2</td></tr> <tr><td>DE7/11/3</td><td>S</td><td>77A</td><td>033770</td><td>Bolt Tower M12 X 30</td><td>4</td></tr> <tr><td>DE7/11/3</td><td>S</td><td>78B</td><td>033781</td><td>Bolt Tower M16 X 40</td><td>4</td></tr> <tr><td>DE7/11/3</td><td>S</td><td>88A</td><td>066412</td><td>Washer Tower 12</td><td>4</td></tr> <tr><td>DE7/11/3</td><td>S</td><td>88B</td><td>066413</td><td>Washer Tower 16</td><td>4</td></tr> <tr><td>DE7/11/3</td><td>S</td><td>60G</td><td>321260</td><td>Insulator, Disc</td><td>3</td></tr> <tr><td>DE7/11/3</td><td>S</td><td>61A</td><td>322056</td><td>Ball Clevis &amp; Pin</td><td>3</td></tr> <tr><td>DE7/11/3</td><td>S</td><td>61D</td><td>322090</td><td>Kink Pin</td><td>2</td></tr> <tr><td>DE7/11/3</td><td>S</td><td>61B</td><td>322386</td><td>Socket Termination</td><td>3</td></tr> <tr><td>DE7/11/3</td><td>S</td><td>1F</td><td>323307</td><td>Crossarm Mk7</td><td>2</td></tr> <tr><td>DE7/11/3</td><td>S</td><td>2A</td><td>323314</td><td>Crossarm Strap Mk14</td><td>4</td></tr> <tr><td>DE7/11/3</td><td>S</td><td>5B</td><td>323394</td><td>Crossarm Spacer</td><td>2</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>DE7/22/1</td><td>S</td><td>75M</td><td>032287</td><td>Bolt Hex M16 X 325</td><td>2</td></tr> <tr><td>DE7/22/1</td><td>S</td><td>77A</td><td>033770</td><td>Bolt Tower M12 X 30</td><td>4</td></tr> <tr><td>DE7/22/1</td><td>S</td><td>78B</td><td>033781</td><td>Bolt Tower M16 X 40</td><td>4</td></tr> <tr><td>DE7/22/1</td><td>S</td><td>88A</td><td>066412</td><td>Washer Tower 12</td><td>4</td></tr> <tr><td>DE7/22/1</td><td>S</td><td>88B</td><td>066413</td><td>Washer Tower 16</td><td>4</td></tr> <tr><td>DE7/22/1</td><td>S</td><td>60G</td><td>321260</td><td>Insulator, Disc</td><td>4</td></tr> <tr><td>DE7/22/1</td><td>S</td><td>61A</td><td>322056</td><td>Ball Clevis &amp; Pin</td><td>2</td></tr> <tr><td>DE7/22/1</td><td>S</td><td>61D</td><td>322090</td><td>Kink Pin</td><td>2</td></tr> <tr><td>DE7/22/1</td><td>S</td><td>61B</td><td>322386</td><td>Socket Termination</td><td>2</td></tr> <tr><td>DE7/22/1</td><td>S</td><td>1F</td><td>323307</td><td>Crossarm Mk7</td><td>2</td></tr> <tr><td>DE7/22/1</td><td>S</td><td>2A</td><td>323314</td><td>Crossarm Strap Mk14</td><td>4</td></tr> <tr><td>DE7/22/1</td><td>S</td><td>5B</td><td>323394</td><td>Crossarm Spacer</td><td>2</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>DE7/22/3</td><td>S</td><td>75M</td><td>032287</td><td>Bolt Hex M16 X 325</td><td>2</td></tr> <tr><td>DE7/22/3</td><td>S</td><td>77A</td><td>033770</td><td>Bolt Tower M12 X 30</td><td>4</td></tr> <tr><td>DE7/22/3</td><td>S</td><td>78B</td><td>033781</td><td>Bolt Tower M16 X 40</td><td>4</td></tr> <tr><td>DE7/22/3</td><td>S</td><td>88A</td><td>066412</td><td>Washer Tower 12</td><td>4</td></tr> <tr><td>DE7/22/3</td><td>S</td><td>88B</td><td>066413</td><td>Washer Tower 16</td><td>4</td></tr> <tr><td>DE7/22/3</td><td>S</td><td>60G</td><td>321260</td><td>Insulator, Disc</td><td>6</td></tr> <tr><td>DE7/22/3</td><td>S</td><td>61A</td><td>322056</td><td>Ball Clevis &amp; Pin</td><td>3</td></tr> <tr><td>DE7/22/3</td><td>S</td><td>61D</td><td>322090</td><td>Kink Pin</td><td>3</td></tr> <tr><td>DE7/22/3</td><td>S</td><td>61B</td><td>322386</td><td>Socket Termination</td><td>3</td></tr> <tr><td>DE7/22/3</td><td>S</td><td>1F</td><td>323307</td><td>Crossarm Mk7</td><td>2</td></tr> <tr><td>DE7/22/3</td><td>S</td><td>2A</td><td>323314</td><td>Crossarm Strap Mk14</td><td>4</td></tr> <tr><td>DE7/22/3</td><td>S</td><td>5B</td><td>323394</td><td>Crossarm Spacer</td><td>2</td></tr> </tbody> </table> |  |  |   |   | Unit Assembly | Store Type | Item Ref   | Stock Item          | Description | Quantity | DE7/11/1 | S | 75M | 032287 | Bolt Hex M16 X 325 | 2 | DE7/11/1 | S | 77A | 033770 | Bolt Tower M12 X 30 | 4 | DE7/11/1 | S | 78B | 033781 | Bolt Tower M16 X 40 | 4 | DE7/11/1 | S | 88A | 066412 | Washer Tower 12 | 4 | DE7/11/1 | S | 88B | 066413 | Washer Tower 16 | 4 | DE7/11/1 | S | 60G | 321260 | Insulator, Disc | 2 | DE7/11/1 | S | 61A | 322056 | Ball Clevis & Pin | 2 | DE7/11/1 | S | 61D | 322090 | Kink Pin | 2 | DE7/11/1 | S | 61B | 322386 | Socket Termination | 2 | DE7/11/1 | S | 1F | 323307 | Crossarm Mk7 | 2 | DE7/11/1 | S | 2A | 323314 | Crossarm Strap Mk14 | 4 | DE7/11/1 | S | 5B | 323394 | Crossarm Spacer | 2 |  |  |  |  |  |  | DE7/11/3 | S | 75M | 032287 | Bolt Hex M16 X 325 | 2 | DE7/11/3 | S | 77A | 033770 | Bolt Tower M12 X 30 | 4 | DE7/11/3 | S | 78B | 033781 | Bolt Tower M16 X 40 | 4 | DE7/11/3 | S | 88A | 066412 | Washer Tower 12 | 4 | DE7/11/3 | S | 88B | 066413 | Washer Tower 16 | 4 | DE7/11/3 | S | 60G | 321260 | Insulator, Disc | 3 | DE7/11/3 | S | 61A | 322056 | Ball Clevis & Pin | 3 | DE7/11/3 | S | 61D | 322090 | Kink Pin | 2 | DE7/11/3 | S | 61B | 322386 | Socket Termination | 3 | DE7/11/3 | S | 1F | 323307 | Crossarm Mk7 | 2 | DE7/11/3 | S | 2A | 323314 | Crossarm Strap Mk14 | 4 | DE7/11/3 | S | 5B | 323394 | Crossarm Spacer | 2 |  |  |  |  |  |  | DE7/22/1 | S | 75M | 032287 | Bolt Hex M16 X 325 | 2 | DE7/22/1 | S | 77A | 033770 | Bolt Tower M12 X 30 | 4 | DE7/22/1 | S | 78B | 033781 | Bolt Tower M16 X 40 | 4 | DE7/22/1 | S | 88A | 066412 | Washer Tower 12 | 4 | DE7/22/1 | S | 88B | 066413 | Washer Tower 16 | 4 | DE7/22/1 | S | 60G | 321260 | Insulator, Disc | 4 | DE7/22/1 | S | 61A | 322056 | Ball Clevis & Pin | 2 | DE7/22/1 | S | 61D | 322090 | Kink Pin | 2 | DE7/22/1 | S | 61B | 322386 | Socket Termination | 2 | DE7/22/1 | S | 1F | 323307 | Crossarm Mk7 | 2 | DE7/22/1 | S | 2A | 323314 | Crossarm Strap Mk14 | 4 | DE7/22/1 | S | 5B | 323394 | Crossarm Spacer | 2 |  |  |  |  |  |  | DE7/22/3 | S | 75M | 032287 | Bolt Hex M16 X 325 | 2 | DE7/22/3 | S | 77A | 033770 | Bolt Tower M12 X 30 | 4 | DE7/22/3 | S | 78B | 033781 | Bolt Tower M16 X 40 | 4 | DE7/22/3 | S | 88A | 066412 | Washer Tower 12 | 4 | DE7/22/3 | S | 88B | 066413 | Washer Tower 16 | 4 | DE7/22/3 | S | 60G | 321260 | Insulator, Disc | 6 | DE7/22/3 | S | 61A | 322056 | Ball Clevis & Pin | 3 | DE7/22/3 | S | 61D | 322090 | Kink Pin | 3 | DE7/22/3 | S | 61B | 322386 | Socket Termination | 3 | DE7/22/3 | S | 1F | 323307 | Crossarm Mk7 | 2 | DE7/22/3 | S | 2A | 323314 | Crossarm Strap Mk14 | 4 | DE7/22/3 | S | 5B | 323394 | Crossarm Spacer | 2 |
| Unit Assembly |   |  |  |   |   | Store Type    | Item Ref   | Stock Item | Description         | Quantity    |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/1      |   |  |  |   |   | S             | 75M        | 032287     | Bolt Hex M16 X 325  | 2           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/1      |   |  |  |   |   | S             | 77A        | 033770     | Bolt Tower M12 X 30 | 4           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/1      |   |  |  |   |   | S             | 78B        | 033781     | Bolt Tower M16 X 40 | 4           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/1      |   |  |  |   |   | S             | 88A        | 066412     | Washer Tower 12     | 4           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/1      |   |  |  |   |   | S             | 88B        | 066413     | Washer Tower 16     | 4           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/1      |   |  |  |   |   | S             | 60G        | 321260     | Insulator, Disc     | 2           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/1      |   |  |  |   |   | S             | 61A        | 322056     | Ball Clevis & Pin   | 2           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/1      |   |  |  |   |   | S             | 61D        | 322090     | Kink Pin            | 2           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/1      |   |  |  |   |   | S             | 61B        | 322386     | Socket Termination  | 2           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/1      |   |  |  |   |   | S             | 1F         | 323307     | Crossarm Mk7        | 2           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/1      |   |  |  |   |   | S             | 2A         | 323314     | Crossarm Strap Mk14 | 4           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/1      |   |  |  |   |   | S             | 5B         | 323394     | Crossarm Spacer     | 2           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
|               |   |  |  |   |   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/3      |   |  |  |   |   | S             | 75M        | 032287     | Bolt Hex M16 X 325  | 2           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/3      |   |  |  |   |   | S             | 77A        | 033770     | Bolt Tower M12 X 30 | 4           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/3      |   |  |  |   |   | S             | 78B        | 033781     | Bolt Tower M16 X 40 | 4           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/3      |   |  |  |   |   | S             | 88A        | 066412     | Washer Tower 12     | 4           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/3      |   |  |  |   |   | S             | 88B        | 066413     | Washer Tower 16     | 4           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/3      | S   | 60G  | 321260   | Insulator, Disc   | 3   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/3      | S   | 61A  | 322056   | Ball Clevis & Pin   | 3   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/3      | S   | 61D  | 322090   | Kink Pin  | 2   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/3      | S   | 61B  | 322386   | Socket Termination  | 3   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/3      | S   | 1F   | 323307   | Crossarm Mk7  | 2   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/3      | S   | 2A   | 323314   | Crossarm Strap Mk14   | 4   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/11/3      | S   | 5B   | 323394   | Crossarm Spacer   | 2   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
|               |   |  |  |   |   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/1      | S   | 75M  | 032287   | Bolt Hex M16 X 325  | 2   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/1      | S   | 77A  | 033770   | Bolt Tower M12 X 30   | 4   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/1      | S   | 78B  | 033781   | Bolt Tower M16 X 40   | 4   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/1      | S   | 88A  | 066412   | Washer Tower 12   | 4   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/1      | S   | 88B  | 066413   | Washer Tower 16   | 4   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/1      | S   | 60G  | 321260   | Insulator, Disc   | 4   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/1      | S   | 61A  | 322056   | Ball Clevis & Pin   | 2   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/1      | S   | 61D  | 322090   | Kink Pin  | 2   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/1      | S   | 61B  | 322386   | Socket Termination  | 2   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/1      | S   | 1F   | 323307   | Crossarm Mk7  | 2   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/1      | S   | 2A   | 323314   | Crossarm Strap Mk14   | 4   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/1      | S   | 5B   | 323394   | Crossarm Spacer   | 2   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
|               |   |  |  |   |   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/3      | S   | 75M  | 032287   | Bolt Hex M16 X 325  | 2   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/3      | S   | 77A  | 033770   | Bolt Tower M12 X 30   | 4   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/3      | S   | 78B  | 033781   | Bolt Tower M16 X 40   | 4   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/3      | S   | 88A  | 066412   | Washer Tower 12   | 4   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/3      | S   | 88B  | 066413   | Washer Tower 16   | 4   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/3      | S   | 60G  | 321260   | Insulator, Disc   | 6   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/3      | S   | 61A  | 322056   | Ball Clevis & Pin   | 3   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/3      | S   | 61D  | 322090   | Kink Pin  | 3   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/3      | S   | 61B  | 322386   | Socket Termination  | 3   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/3      | S   | 1F   | 323307   | Crossarm Mk7  | 2   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/3      | S   | 2A   | 323314   | Crossarm Strap Mk14   | 4   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| DE7/22/3      | S   | 5B   | 323394   | Crossarm Spacer   | 2   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| B             |   |  |  |   |   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| C             |   |  |  |   |   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| D             |   |  |  |   |   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| E             |   |  |  |   |   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| F             |   |  |  |   |   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| G             |   |  |  |   |   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
| H             | <p>- OBSOLETE<br/>- FOR REFERENCE ONLY</p>  |  |  |   |   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
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|               |   | DRAWN CS PRO-SOLUTIONS<br>DESIGNED BY ELECTRO<br>CHECKED BY HLWESTBURY<br>APPROVED BY -<br>DATE APPROVED 24/MAY/19 | TITLE<br>DEAD END 11kV OR 22kV<br>MK7 CROSSARM OPEN WIRE<br>MATERIALS LIST<br>OBSOLETE |   | SCALE<br>NTS<br><br>A4<br><br>REVISION<br>A |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |
|               |   |  | D - OHC - C045 - SD - 002  |   |   |               |            |            |                     |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                 |   |          |   |     |        |                   |   |          |   |     |        |          |   |          |   |     |        |                    |   |          |   |    |        |              |   |          |   |    |        |                     |   |          |   |    |        |                 |   |



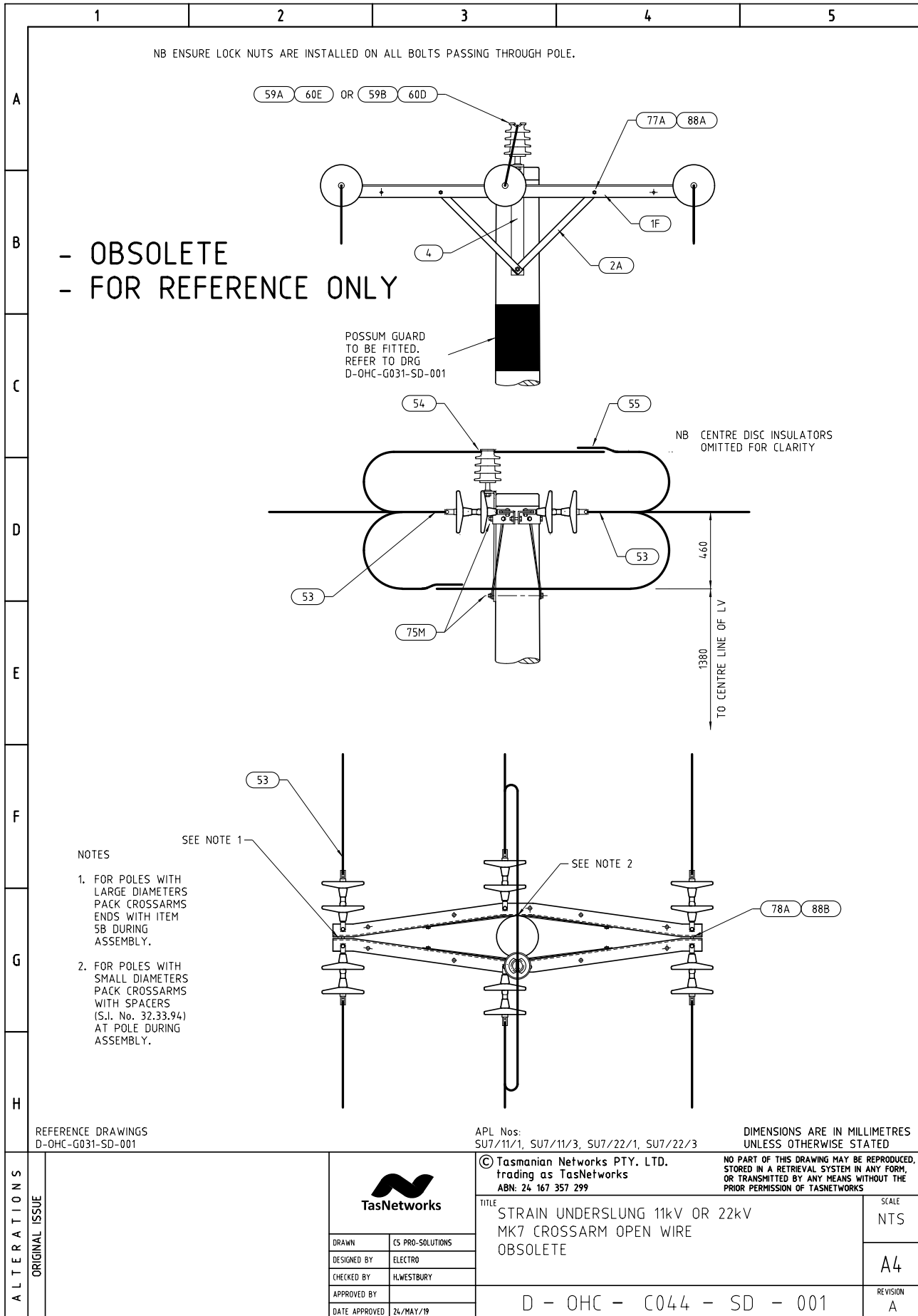
### 3.4 Strain, Open Wire, Mk7 Crossarm (Obsolete)



Strain Open Wire Mk7 Crossarm - Material List (Osbolete)

|   |   | 1             | 2                                  | 3                                  | 4                                  | 5  |                     |   |  |   |              |               |
|---|---|---------------|------------------------------------|------------------------------------|------------------------------------|--|---------------------|---|--|---|--------------|---------------|
| A |   | Unit Assembly | Store Type                         | Item Ref                           | Stock Item                         | Description  | Quantity            |   |  |   |              |               |
|   |   | S7/11/1       | S                                  | 75M                                | 032287                             | Bolt Hex M16 X 325   | 2                   |   |  |   |              |               |
|   |   | S7/11/1       | S                                  | 77A                                | 033770                             | Bolt Tower M12 X 30  | 4                   |   |  |   |              |               |
|   |   | S7/11/1       | S                                  | 78A                                | 033780                             | Bolt Tower M16 X 35  | 6                   |   |  |   |              |               |
|   |   | S7/11/1       | S                                  | 86B                                | 065158                             | Washer Es 16   | 2                   |   |  |   |              |               |
|   |   | S7/11/1       | S                                  | 88A                                | 066412                             | Washer Tower 12  | 4                   |   |  |   |              |               |
|   |   | S7/11/1       | S                                  | 88B                                | 066413                             | Washer Tower 16  | 6                   |   |  |   |              |               |
|   |   | S7/11/1       | S                                  | 90B                                | 066771                             | Washer Spring Spiral 16  | 1                   |   |  |   |              |               |
|   |   | S7/11/1       | S                                  | 60E                                | 320531                             | Insulator,Pin 22/450   | 2                   |   |  |   |              |               |
|   |   | S7/11/1       | S                                  | 60G                                | 321260                             | Insulator,Disc   | 4                   |   |  |   |              |               |
|   |   | S7/11/1       | S                                  | 61A                                | 322056                             | Ball Clevis & Pin  | 4                   |   |  |   |              |               |
|   |   | S7/11/1       | S                                  | 61D                                | 322090                             | Kink Pin   | 4                   |   |  |   |              |               |
|   |   | S7/11/1       | S                                  | 61B                                | 322386                             | Socket Termination   | 4                   |   |  |   |              |               |
|   |   | S7/11/1       | S                                  | 59A                                | 322721                             | Pin,Insulator 22kv   | 2                   |   |  |   |              |               |
|   |   | S7/11/1       | S                                  | 1F                                 | 323307                             | Crossarm Mk7   | 2                   |   |  |   |              |               |
|   |   | S7/11/1       | S                                  | 4                                  | 323311                             | L' Bracket Mk11  | 1                   |   |  |   |              |               |
|   |   | S7/11/1       | S                                  | 2A                                 | 323314                             | Crossarm Strap Mk14  | 4                   |   |  |   |              |               |
|   |   | S7/11/1       | S                                  | 5B                                 | 323394                             | Crossarm Spacer  | 2                   |   |  |   |              |               |
|   | B |               | S7/11/3                            | S                                  | 75M                                | 032287   | Bolt Hex M16 X 325  | 2   |  |   |              |               |
|   |   |               | S7/11/3                            | S                                  | 77A                                | 033770   | Bolt Tower M12 X 30 | 4   |  |   |              |               |
|   |   | S7/11/3       | S                                  | 78A                                | 033780                             | Bolt Tower M16 X 35  | 6                   |   |  |   |              |               |
|   |   | S7/11/3       | S                                  | 86B                                | 065158                             | Washer Es 16   | 2                   |   |  |   |              |               |
|   |   | S7/11/3       | S                                  | 88A                                | 066412                             | Washer Tower 12  | 4                   |   |  |   |              |               |
|   |   | S7/11/3       | S                                  | 88B                                | 066413                             | Washer Tower 16  | 6                   |   |  |   |              |               |
|   |   | S7/11/3       | S                                  | 90B                                | 066771                             | Washer Spring Spiral 16  | 1                   |   |  |   |              |               |
|   |   | S7/11/3       | S                                  | 60E                                | 320531                             | Insulator,Pin 22/450   | 3                   |   |  |   |              |               |
|   |   | S7/11/3       | S                                  | 60G                                | 321260                             | Insulator,Disc   | 6                   |   |  |   |              |               |
|   |   | S7/11/3       | S                                  | 61A                                | 322056                             | Ball Clevis & Pin  | 6                   |   |  |   |              |               |
|   |   | S7/11/3       | S                                  | 61D                                | 322090                             | Kink Pin   | 6                   |   |  |   |              |               |
|   |   | S7/11/3       | S                                  | 61B                                | 322386                             | Socket Termination   | 6                   |   |  |   |              |               |
|   |   | S7/11/3       | S                                  | 59A                                | 322721                             | Pin,Insulator 22kv   | 3                   |   |  |   |              |               |
|   |   | S7/11/3       | S                                  | 1F                                 | 323307                             | Crossarm Mk7   | 2                   |   |  |   |              |               |
|   |   | S7/11/3       | S                                  | 4                                  | 323311                             | L' Bracket Mk11  | 1                   |   |  |   |              |               |
|   |   | S7/11/3       | S                                  | 2A                                 | 323314                             | Crossarm Strap Mk14  | 4                   |   |  |   |              |               |
|   |   | S7/11/1       | S                                  | 5B                                 | 323394                             | Crossarm Spacer  | 2                   |   |  |   |              |               |
| C |   |               | S7/22/1                            | S                                  | 75M                                | 032287   | Bolt Hex M16 X 325  | 2   |  |   |              |               |
|   |   |               | S7/22/1                            | S                                  | 77A                                | 033770   | Bolt Tower M12 X 30 | 4   |  |   |              |               |
|   |   |               | S7/22/1                            | S                                  | 78A                                | 033780   | Bolt Tower M16 X 35 | 6   |  |   |              |               |
|   |   | S7/22/1       | S                                  | 88A                                | 066412                             | Washer Tower 12  | 4                   |   |  |   |              |               |
|   |   | S7/22/1       | S                                  | 88B                                | 066413                             | Washer Tower 16  | 6                   |   |  |   |              |               |
|   |   | S7/22/1       | S                                  | 90B                                | 066771                             | Washer Spring Spiral 16  | 1                   |   |  |   |              |               |
|   |   | S7/22/1       | S                                  | 60E                                | 320531                             | Insulator,Pin 22/450   | 2                   |   |  |   |              |               |
|   |   | S7/22/1       | S                                  | 60G                                | 321260                             | Insulator,Disc   | 8                   |   |  |   |              |               |
|   |   | S7/22/1       | S                                  | 61A                                | 322056                             | Ball Clevis & Pin  | 4                   |   |  |   |              |               |
|   |   | S7/22/1       | S                                  | 61D                                | 322090                             | Kink Pin   | 6                   |   |  |   |              |               |
|   |   | S7/22/1       | S                                  | 61B                                | 322386                             | Socket Termination   | 4                   |   |  |   |              |               |
|   |   | S7/22/1       | S                                  | 59A                                | 322721                             | Pin,Insulator 22kv   | 2                   |   |  |   |              |               |
|   |   | S7/22/1       | S                                  | 1F                                 | 323307                             | Crossarm Mk7   | 2                   |   |  |   |              |               |
|   |   | S7/22/1       | S                                  | 4                                  | 323311                             | L' Bracket Mk11  | 1                   |   |  |   |              |               |
|   |   | S7/22/1       | S                                  | 2A                                 | 323314                             | Crossarm Strap Mk14  | 4                   |   |  |   |              |               |
|   |   | S7/11/1       | S                                  | 5B                                 | 323394                             | Crossarm Spacer  | 2                   |   |  |   |              |               |
|   | D |               | S7/22/3                            | S                                  | 75M                                | 032287   | Bolt Hex M16 X 325  | 2   |  |   |              |               |
|   |   |               | S7/22/3                            | S                                  | 77A                                | 033770   | Bolt Tower M12 X 30 | 4   |  |   |              |               |
|   |   |               | S7/22/3                            | S                                  | 75M                                | 032287   | Bolt Hex M16 X 325  | 2   |  |   |              |               |
|   |   |               | S7/22/3                            | S                                  | 77A                                | 033770   | Bolt Tower M12 X 30 | 4   |  |   |              |               |
|   |   | S7/22/3       | S                                  | 78A                                | 033780                             | Bolt Tower M16 X 35  | 6                   |   |  |   |              |               |
|   |   | S7/22/3       | S                                  | 86B                                | 065158                             | Washer Es 16   | 2                   |   |  |   |              |               |
|   |   | S7/22/3       | S                                  | 88A                                | 066412                             | Washer Tower 12  | 4                   |   |  |   |              |               |
|   |   | S7/22/3       | S                                  | 88B                                | 066413                             | Washer Tower 16  | 6                   |   |  |   |              |               |
|   |   | S7/22/3       | S                                  | 60E                                | 320531                             | Insulator,Pin 22/450   | 3                   |   |  |   |              |               |
|   |   | S7/22/3       | S                                  | 60G                                | 321260                             | Insulator,Disc   | 12                  |   |  |   |              |               |
|   |   | S7/22/3       | S                                  | 61A                                | 322056                             | Ball Clevis & Pin  | 6                   |   |  |   |              |               |
|   |   | S7/22/3       | S                                  | 61D                                | 322090                             | Kink Pin   | 9                   |   |  |   |              |               |
|   |   | S7/22/3       | S                                  | 61B                                | 322386                             | Socket Termination   | 6                   |   |  |   |              |               |
|   |   | S7/22/3       | S                                  | 59A                                | 322721                             | Pin,Insulator 22kv   | 3                   |   |  |   |              |               |
|   |   | S7/22/3       | S                                  | 1F                                 | 323307                             | Crossarm Mk7   | 2                   |   |  |   |              |               |
|   |   | S7/22/3       | S                                  | 4                                  | 323311                             | L' Bracket Mk11  | 1                   |   |  |   |              |               |
|   |   | S7/22/3       | S                                  | 2A                                 | 323314                             | Crossarm Strap Mk14  | 4                   |   |  |   |              |               |
|   |   | S7/11/1       | S                                  | 5B                                 | 323394                             | Crossarm Spacer  | 2                   |   |  |   |              |               |
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|   |   |               |                                    |                                    |                                    | TITLE<br>STRAIN 11kV OR 22kV<br>MK7 CROSSARM OPEN WIRE<br>MATERIALS LIST<br>OBSOLETE |                     |   |  |   | SCALE<br>NTS |               |
|   |   |               |                                    |                                    |                                    | DRAWN<br>CS PRO-SOLUTIONS  |                     | DESIGNED BY<br>ELECTRO  |  | APPROVED BY<br>-  |              | REVISION<br>A |
|   |   |               |                                    |                                    |                                    | CHECKED BY<br>HLWESTBURY   |                     | DATE APPROVED<br>24/MAY/19  |  | D - OHC - C043 - SD - 002   |              |               |


### 3.5 Strain Underslung, Open Wire, Mk7 Crossarm (Obsolete)



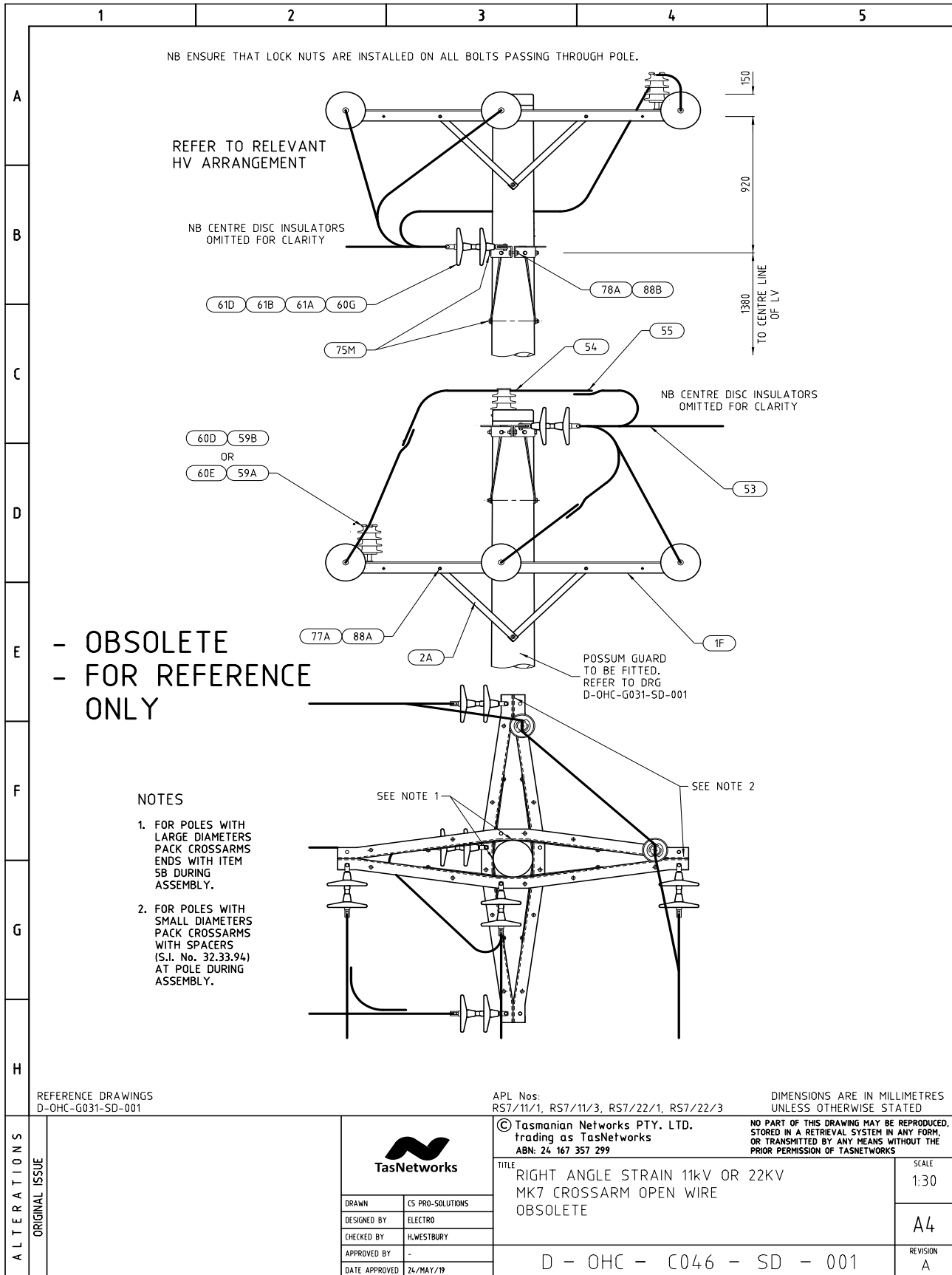
Strain Underslung Open Wire, Mk7 Crossarm - Materials List (Obsolete)

| 1        | 2             | 3          | 4        | 5          |                         |                         |   |
|----------|---------------|------------|----------|------------|-------------------------|-------------------------|---|
| A        | Unit_Assembly | Store Type | Item Ref | Stock Item | Description             | Quantity                |   |
|          | SU7/11/1      | S          | 75M      | 032287     | Bolt Hex M16 X 325      | 2                       |   |
|          | SU7/11/1      | S          | 77A      | 033770     | Bolt Tow er M12 X 30    | 4                       |   |
|          | SU7/11/1      | S          | 78A      | 033780     | Bolt Tow er M16 X 35    | 6                       |   |
|          | SU7/11/1      | S          | 86B      | 065158     | Washer Els 16           | 2                       |   |
|          | SU7/11/1      | S          | 88A      | 066412     | Washer Tow er 12        | 4                       |   |
|          | SU7/11/1      | S          | 88B      | 066413     | Washer Tow er 16        | 6                       |   |
|          | SU7/11/1      | S          | 90B      | 066771     | Washer Spring Spiral 16 | 1                       |   |
|          | SU7/11/1      | S          | 60G      | 321260     | Insulator,Disc          | 4                       |   |
|          | SU7/11/1      | S          | 61A      | 322056     | Ball Clevis & Pin       | 4                       |   |
|          | SU7/11/1      | S          | 61D      | 322090     | Kink Pin                | 4                       |   |
|          | B             | SU7/11/1   | S        | 61B        | 322386                  | Socket Termination      | 4 |
| SU7/11/1 |               | S          | 1F       | 323307     | Crossarm Mk7            | 2                       |   |
| SU7/11/1 |               | S          | 4        | 323311     | L' Bracket Mk11         | 1                       |   |
| SU7/11/1 |               | S          | 2A       | 323314     | Crossarm Strap Mk14     | 4                       |   |
| C        |               | SU7/11/3   | S        | 75M        | 032287                  | Bolt Hex M16 X 325      | 2 |
|          |               | SU7/11/3   | S        | 77A        | 033770                  | Bolt Tow er M12 X 30    | 4 |
|          |               | SU7/11/3   | S        | 78A        | 033780                  | Bolt Tow er M16 X 35    | 6 |
|          |               | SU7/11/3   | S        | 86B        | 065158                  | Washer Els 16           | 2 |
|          |               | SU7/11/3   | S        | 88A        | 066412                  | Washer Tow er 12        | 4 |
|          |               | SU7/11/3   | S        | 88B        | 066413                  | Washer Tow er 16        | 6 |
|          |               | SU7/11/3   | S        | 90B        | 066771                  | Washer Spring Spiral 16 | 1 |
|          |               | SU7/11/3   | S        | 60E        | 320531                  | Insulator,Pin 22/450    | 1 |
|          | SU7/11/3      | S          | 60G      | 321260     | Insulator,Disc          | 6                       |   |
|          | SU7/11/3      | S          | 61A      | 322056     | Ball Clevis & Pin       | 6                       |   |
|          | SU7/11/3      | S          | 61D      | 322090     | Kink Pin                | 6                       |   |
|          | D             | SU7/11/3   | S        | 61B        | 322386                  | Socket Termination      | 6 |
| SU7/11/3 |               | S          | 59A      | 322721     | Pin,Insulator 22kv      | 1                       |   |
| SU7/11/3 |               | S          | 1F       | 323307     | Crossarm Mk7            | 2                       |   |
| SU7/11/3 |               | S          | 4        | 323311     | L' Bracket Mk11         | 1                       |   |
| SU7/11/3 |               | S          | 2A       | 323314     | Crossarm Strap Mk14     | 4                       |   |
| E        |               | SU7/22/1   | S        | 75M        | 032287                  | Bolt Hex M16 X 325      | 2 |
|          |               | SU7/22/1   | S        | 77A        | 033770                  | Bolt Tow er M12 X 30    | 4 |
|          |               | SU7/22/1   | S        | 78A        | 033780                  | Bolt Tow er M16 X 35    | 6 |
|          |               | SU7/22/1   | S        | 88A        | 066412                  | Washer Tow er 12        | 4 |
|          |               | SU7/22/1   | S        | 88B        | 066413                  | Washer Tow er 16        | 6 |
|          |               | SU7/22/1   | S        | 90B        | 066771                  | Washer Spring Spiral 16 | 1 |
|          |               | SU7/22/1   | S        | 60G        | 321260                  | Insulator,Disc          | 8 |
|          | SU7/22/1      | S          | 61A      | 322056     | Ball Clevis & Pin       | 4                       |   |
|          | SU7/22/1      | S          | 61D      | 322090     | Kink Pin                | 6                       |   |
|          | SU7/22/1      | S          | 61B      | 322386     | Socket Termination      | 4                       |   |
|          | SU7/22/1      | S          | 1F       | 323307     | Crossarm Mk7            | 2                       |   |
|          | F             | SU7/22/1   | S        | 4          | 323311                  | L' Bracket Mk11         | 1 |
| SU7/22/1 |               | S          | 2A       | 323314     | Crossarm Strap Mk14     | 4                       |   |
| SU7/22/3 |               | S          | 75M      | 032287     | Bolt Hex M16 X 325      | 2                       |   |
| SU7/22/3 |               | S          | 77A      | 033770     | Bolt Tow er M12 X 30    | 4                       |   |
| SU7/22/3 |               | S          | 78A      | 033780     | Bolt Tow er M16 X 35    | 6                       |   |
| SU7/22/3 |               | S          | 86B      | 065158     | Washer Els 16           | 2                       |   |
| SU7/22/3 |               | S          | 88A      | 066412     | Washer Tow er 12        | 4                       |   |
| SU7/22/3 |               | S          | 88B      | 066413     | Washer Tow er 16        | 6                       |   |
| SU7/22/3 |               | S          | 60E      | 320531     | Insulator,Pin 22/450    | 1                       |   |
| SU7/22/3 |               | S          | 60G      | 321260     | Insulator,Disc          | 12                      |   |
| SU7/22/3 |               | S          | 61A      | 322056     | Ball Clevis & Pin       | 6                       |   |
| G        |               | SU7/22/3   | S        | 61D        | 322090                  | Kink Pin                | 9 |
|          | SU7/22/3      | S          | 61B      | 322386     | Socket Termination      | 6                       |   |
|          | SU7/22/3      | S          | 59A      | 322721     | Pin,Insulator 22kv      | 1                       |   |
|          | SU7/22/3      | S          | 1F       | 323307     | Crossarm Mk7            | 2                       |   |
|          | SU7/22/3      | S          | 4        | 323311     | L' Bracket Mk11         | 1                       |   |
|          | SU7/22/3      | S          | 2A       | 323314     | Crossarm Strap Mk14     | 4                       |   |
|          | SU7/22/3      | S          | 5B       | 323394     | Crossarm Spacer         | 2                       |   |


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|             |                |   |  | TITLE<br>STRAIN UNDERSLUG 11kV OR 22kV<br>MK7 CROSSARM OPEN WIRE<br>MATERIALS LIST<br>OBSOLETE |  | SCALE<br>NTS  |  |
|             |                | DRAWN<br>CS PRO-SOLUTIONS   |  | DESIGNED BY<br>ELECTRO   |  | REVISION<br>A4  |  |
|             |                | CHECKED BY<br>H.WESTBURY  |  | APPROVED BY<br>-   |  |   |  |
|             |                | DATE APPROVED<br>24/MAY/19  |  | D - OHC - C044 - SD - 002  |  |   |  |

### 3.6 Right Angle Strain, Open Wire, Mk7 Crossarm (Obsolete)

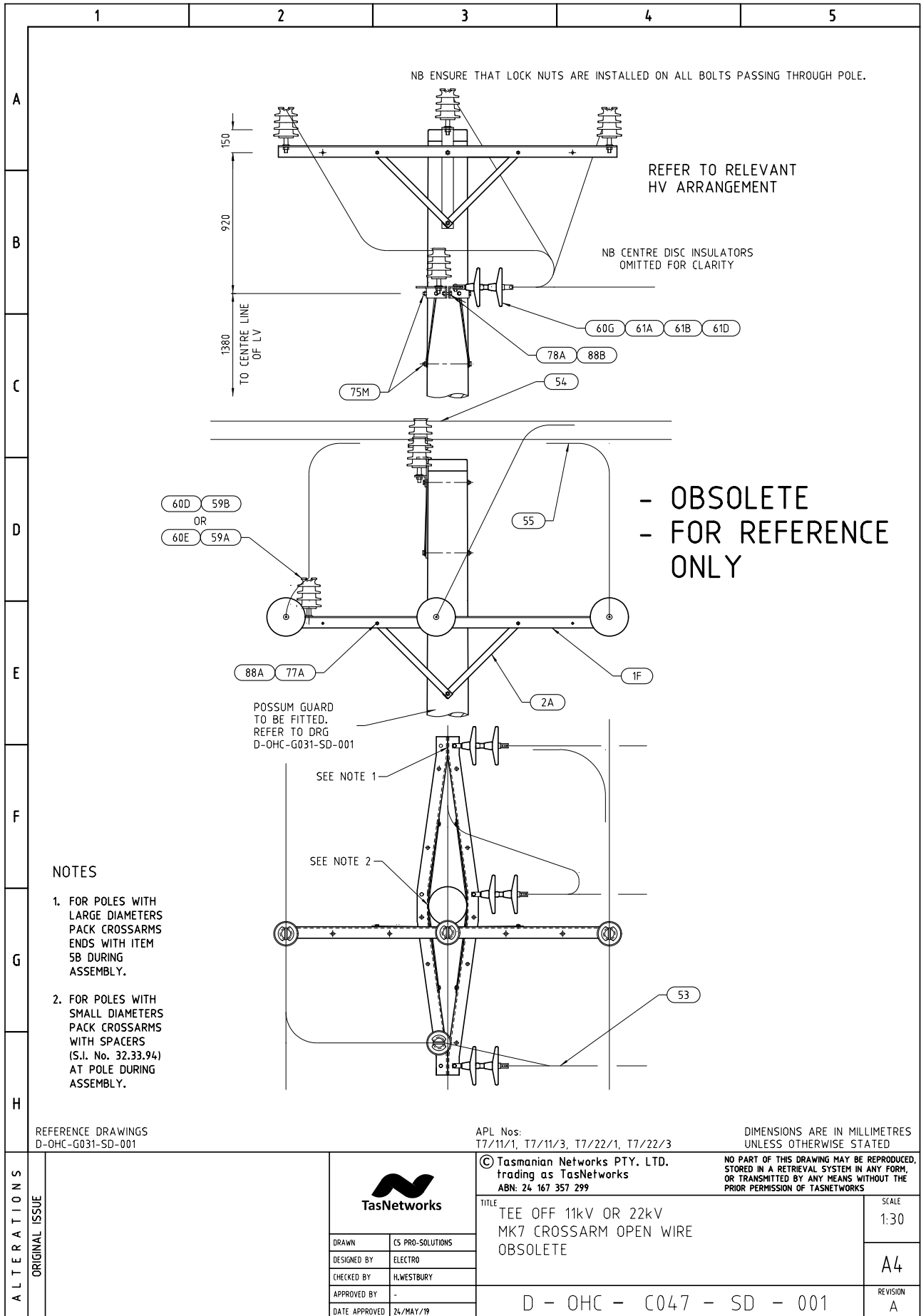


Right Angle Strain, Open Wire, Mk7 Crossarm - Material List (Obsolete)

|   |             | 1                    | 2   | 3                | 4   | 5   |   |                      |   |
|---|-------------|----------------------|---|------------------|---|---|---|----------------------|---|
| A |             | <b>Unit Assembly</b> | <b>Store Type</b>   | <b>Item Ref</b>  | <b>Stock Item</b>   | <b>Description</b>  | <b>Quantity</b>   |                      |   |
|   |             | RS7/11/1             | S   | 75M              | 032287  | Bolt Hex M16 X 325  | 4   |                      |   |
|   | B           |                      | RS7/11/1  | S                | 77A   | 033770  | Bolt Tower M12 X 30   | 8                    |   |
|   |             |                      | RS7/11/1  | S                | 78B   | 033781  | Bolt Tower M16 X 40   | 8                    |   |
|   |             |                      | RS7/11/1  | S                | 86B   | 065158  | Washer Els 16   | 4                    |   |
|   |             |                      | RS7/11/1  | S                | 88A   | 066412  | Washer Tower 12   | 8                    |   |
|   |             |                      | RS7/11/1  | S                | 88B   | 066413  | Washer Tower 16   | 8                    |   |
|   |             |                      | RS7/11/1  | S                | 60E   | 320531  | Insulator, Pn 22/450  | 2                    |   |
|   |             |                      | RS7/11/1  | S                | 60G   | 321260  | Insulator, Disc   | 4                    |   |
|   |             |                      | RS7/11/1  | S                | 61A   | 322056  | Ball Clevis & Pin   | 4                    |   |
|   |             |                      | RS7/11/1  | S                | 61D   | 322090  | Kink Pin  | 4                    |   |
|   |             |                      | RS7/11/1  | S                | 61B   | 322386  | Socket Termination  | 4                    |   |
|   |             |                      | RS7/11/1  | S                | 59A   | 322721  | Pin, Insulator 22kv   | 2                    |   |
|   |             |                      | RS7/11/1  | S                | 1F  | 323307  | Crossarm Mk7  | 4                    |   |
|   |             |                      | RS7/11/1  | S                | 2A  | 323314  | Crossarm Strap Mk14   | 8                    |   |
|   |             |                      | RS7/11/1  | S                | 5B  | 323394  | Crossarm Spacer   | 2                    |   |
|   |             | C                    |   | RS7/11/3         | S   | 75M   | 032287  | Bolt Hex M16 X 325   | 4 |
|   |             |                      |   | RS7/11/3         | S   | 77A   | 033770  | Bolt Tower M12 X 30  | 8 |
|   |             |                      |   | RS7/11/3         | S   | 78B   | 033781  | Bolt Tower M16 X 40  | 8 |
|   |             |                      |   | RS7/11/3         | S   | 86B   | 065158  | Washer Els 16        | 4 |
|   |             |                      |   | RS7/11/3         | S   | 88A   | 066412  | Washer Tower 12      | 8 |
|   |             |                      |   | RS7/11/3         | S   | 88B   | 066413  | Washer Tower 16      | 8 |
|   |             |                      |   | RS7/11/3         | S   | 60E   | 320531  | Insulator, Pn 22/450 | 2 |
|   |             |                      |   | RS7/11/3         | S   | 60G   | 321260  | Insulator, Disc      | 6 |
|   |             |                      | RS7/11/3  | S                | 61A   | 322056  | Ball Clevis & Pin   | 6                    |   |
|   |             |                      | RS7/11/3  | S                | 61D   | 322090  | Kink Pin  | 6                    |   |
|   | RS7/11/3    |                      | S   | 61B              | 322386  | Socket Termination  | 6   |                      |   |
|   | RS7/11/3    |                      | S   | 59A              | 322721  | Pin, Insulator 22kv   | 2   |                      |   |
|   | RS7/11/3    |                      | S   | 1F               | 323307  | Crossarm Mk7  | 4   |                      |   |
|   | RS7/11/3    |                      | S   | 2A               | 323314  | Crossarm Strap Mk14   | 8   |                      |   |
|   | RS7/11/3    |                      | S   | 5B               | 323394  | Crossarm Spacer   | 2   |                      |   |
| D |             |                      | RS7/22/1  | S                | 75M   | 032287  | Bolt Hex M16 X 325  | 4                    |   |
|   |             |                      | RS7/22/1  | S                | 77A   | 033770  | Bolt Tower M12 X 30   | 8                    |   |
|   |             |                      | RS7/22/1  | S                | 78B   | 033781  | Bolt Tower M16 X 40   | 8                    |   |
|   |             |                      | RS7/22/1  | S                | 86B   | 065158  | Washer Els 16   | 4                    |   |
|   |             |                      | RS7/22/1  | S                | 88A   | 066412  | Washer Tower 12   | 8                    |   |
|   |             |                      | RS7/22/1  | S                | 88B   | 066413  | Washer Tower 16   | 8                    |   |
|   |             |                      | RS7/22/1  | S                | 60E   | 320531  | Insulator, Pn 22/450  | 2                    |   |
|   |             |                      | RS7/22/1  | S                | 60G   | 321260  | Insulator, Disc   | 8                    |   |
|   |             |                      | RS7/22/1  | S                | 61A   | 322056  | Ball Clevis & Pin   | 4                    |   |
|   |             | RS7/22/1             | S   | 61D              | 322090  | Kink Pin  | 4   |                      |   |
|   |             | RS7/22/1             | S   | 61B              | 322386  | Socket Termination  | 4   |                      |   |
|   |             | RS7/22/1             | S   | 59A              | 322721  | Pin, Insulator 22kv   | 2   |                      |   |
|   |             | RS7/22/1             | S   | 1F               | 323307  | Crossarm Mk7  | 4   |                      |   |
|   |             | RS7/22/1             | S   | 2A               | 323314  | Crossarm Strap Mk14   | 8   |                      |   |
|   |             | RS7/22/1             | S   | 5B               | 323394  | Crossarm Spacer   | 2   |                      |   |
|   | E           |                      | RS7/22/3  | S                | 75M   | 032287  | Bolt Hex M16 X 325  | 4                    |   |
|   |             |                      | RS7/22/3  | S                | 77A   | 033770  | Bolt Tower M12 X 30   | 8                    |   |
|   |             |                      | RS7/22/3  | S                | 78B   | 033781  | Bolt Tower M16 X 40   | 8                    |   |
|   |             |                      | RS7/22/3  | S                | 86B   | 065158  | Washer Els 16   | 4                    |   |
|   |             |                      | RS7/22/3  | S                | 88A   | 066412  | Washer Tower 12   | 8                    |   |
|   |             |                      | RS7/22/3  | S                | 88B   | 066413  | Washer Tower 16   | 8                    |   |
|   |             |                      | RS7/22/3  | S                | 60E   | 320531  | Insulator, Pn 22/450  | 2                    |   |
|   |             |                      | RS7/22/3  | S                | 60G   | 321260  | Insulator, Disc   | 12                   |   |
|   |             |                      | RS7/22/3  | S                | 61A   | 322056  | Ball Clevis & Pin   | 6                    |   |
|   |             | RS7/22/3             | S   | 61D              | 322090  | Kink Pin  | 6   |                      |   |
|   |             | RS7/22/3             | S   | 61B              | 322386  | Socket Termination  | 6   |                      |   |
|   |             | RS7/22/3             | S   | 59A              | 322721  | Pin, Insulator 22kv   | 2   |                      |   |
|   |             | RS7/22/3             | S   | 1F               | 323307  | Crossarm Mk7  | 4   |                      |   |
|   |             | RS7/22/3             | S   | 2A               | 323314  | Crossarm Strap Mk14   | 8   |                      |   |
|   |             | RS7/22/3             | S   | 5B               | 323394  | Crossarm Spacer   | 2   |                      |   |
| F |             |                      | RS7/22/3  | S                | 75M   | 032287  | Bolt Hex M16 X 325  | 4                    |   |
|   |             |                      | RS7/22/3  | S                | 77A   | 033770  | Bolt Tower M12 X 30   | 8                    |   |
|   |             |                      | RS7/22/3  | S                | 78B   | 033781  | Bolt Tower M16 X 40   | 8                    |   |
|   |             |                      | RS7/22/3  | S                | 86B   | 065158  | Washer Els 16   | 4                    |   |
|   |             |                      | RS7/22/3  | S                | 88A   | 066412  | Washer Tower 12   | 8                    |   |
|   |             |                      | RS7/22/3  | S                | 88B   | 066413  | Washer Tower 16   | 8                    |   |
|   |             |                      | RS7/22/3  | S                | 60E   | 320531  | Insulator, Pn 22/450  | 2                    |   |
|   |             |                      | RS7/22/3  | S                | 60G   | 321260  | Insulator, Disc   | 12                   |   |
|   |             |                      | RS7/22/3  | S                | 61A   | 322056  | Ball Clevis & Pin   | 6                    |   |
|   |             | RS7/22/3             | S   | 61D              | 322090  | Kink Pin  | 6   |                      |   |
|   |             | RS7/22/3             | S   | 61B              | 322386  | Socket Termination  | 6   |                      |   |
|   |             | RS7/22/3             | S   | 59A              | 322721  | Pin, Insulator 22kv   | 2   |                      |   |
|   |             | RS7/22/3             | S   | 1F               | 323307  | Crossarm Mk7  | 4   |                      |   |
|   |             | RS7/22/3             | S   | 2A               | 323314  | Crossarm Strap Mk14   | 8   |                      |   |
|   |             | RS7/22/3             | S   | 5B               | 323394  | Crossarm Spacer   | 2   |                      |   |
|   | G           |                      | RS7/22/3  | S                | 75M   | 032287  | Bolt Hex M16 X 325  | 4                    |   |
|   |             |                      | RS7/22/3  | S                | 77A   | 033770  | Bolt Tower M12 X 30   | 8                    |   |
|   |             |                      | RS7/22/3  | S                | 78B   | 033781  | Bolt Tower M16 X 40   | 8                    |   |
|   |             |                      | RS7/22/3  | S                | 86B   | 065158  | Washer Els 16   | 4                    |   |
|   |             |                      | RS7/22/3  | S                | 88A   | 066412  | Washer Tower 12   | 8                    |   |
|   |             |                      | RS7/22/3  | S                | 88B   | 066413  | Washer Tower 16   | 8                    |   |
|   |             |                      | RS7/22/3  | S                | 60E   | 320531  | Insulator, Pn 22/450  | 2                    |   |
|   |             |                      | RS7/22/3  | S                | 60G   | 321260  | Insulator, Disc   | 12                   |   |
|   |             |                      | RS7/22/3  | S                | 61A   | 322056  | Ball Clevis & Pin   | 6                    |   |
|   |             | RS7/22/3             | S   | 61D              | 322090  | Kink Pin  | 6   |                      |   |
|   |             | RS7/22/3             | S   | 61B              | 322386  | Socket Termination  | 6   |                      |   |
|   |             | RS7/22/3             | S   | 59A              | 322721  | Pin, Insulator 22kv   | 2   |                      |   |
|   |             | RS7/22/3             | S   | 1F               | 323307  | Crossarm Mk7  | 4   |                      |   |
|   |             | RS7/22/3             | S   | 2A               | 323314  | Crossarm Strap Mk14   | 8   |                      |   |
|   |             | RS7/22/3             | S   | 5B               | 323394  | Crossarm Spacer   | 2   |                      |   |
| H |             |                      | RS7/22/3  | S                | 75M   | 032287  | Bolt Hex M16 X 325  | 4                    |   |
|   |             |                      | RS7/22/3  | S                | 77A   | 033770  | Bolt Tower M12 X 30   | 8                    |   |
|   |             |                      | RS7/22/3  | S                | 78B   | 033781  | Bolt Tower M16 X 40   | 8                    |   |
|   |             |                      | RS7/22/3  | S                | 86B   | 065158  | Washer Els 16   | 4                    |   |
|   |             |                      | RS7/22/3  | S                | 88A   | 066412  | Washer Tower 12   | 8                    |   |
|   |             |                      | RS7/22/3  | S                | 88B   | 066413  | Washer Tower 16   | 8                    |   |
|   |             |                      | RS7/22/3  | S                | 60E   | 320531  | Insulator, Pn 22/450  | 2                    |   |
|   |             |                      | RS7/22/3  | S                | 60G   | 321260  | Insulator, Disc   | 12                   |   |
|   |             |                      | RS7/22/3  | S                | 61A   | 322056  | Ball Clevis & Pin   | 6                    |   |
|   |             | RS7/22/3             | S   | 61D              | 322090  | Kink Pin  | 6   |                      |   |
|   |             | RS7/22/3             | S   | 61B              | 322386  | Socket Termination  | 6   |                      |   |
|   |             | RS7/22/3             | S   | 59A              | 322721  | Pin, Insulator 22kv   | 2   |                      |   |
|   |             | RS7/22/3             | S   | 1F               | 323307  | Crossarm Mk7  | 4   |                      |   |
|   |             | RS7/22/3             | S   | 2A               | 323314  | Crossarm Strap Mk14   | 8   |                      |   |
|   |             | RS7/22/3             | S   | 5B               | 323394  | Crossarm Spacer   | 2   |                      |   |
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|   |             |                      | DRAWN   | CS PRO-SOLUTIONS | TITLE   | RIGHT ANGLE STRAIN 11kV OR 22kV<br>MK7 CROSSARM OPEN WIRE<br>MATERIALS LIST<br>OBSOLETE | SCALE   | NTS                  |   |
|   |             |                      | DESIGNED BY   | ELECTRO          |   |   |   | A4                   |   |
|   |             |                      | CHECKED BY  | HLWESTBURY       |   |   |   |                      |   |
|   |             |                      | APPROVED BY   | -                |   |   |   | REVISION             |   |
|   |             |                      | DATE APPROVED   | 24/MAY/19        |   | D - OHC - C046 - SD - 002   |   | A                    |   |

- OBSOLETE  
- FOR REFERENCE ONLY

### 3.7 Tee Off Open Wire, Mk7 Crossarm (Obsolete)

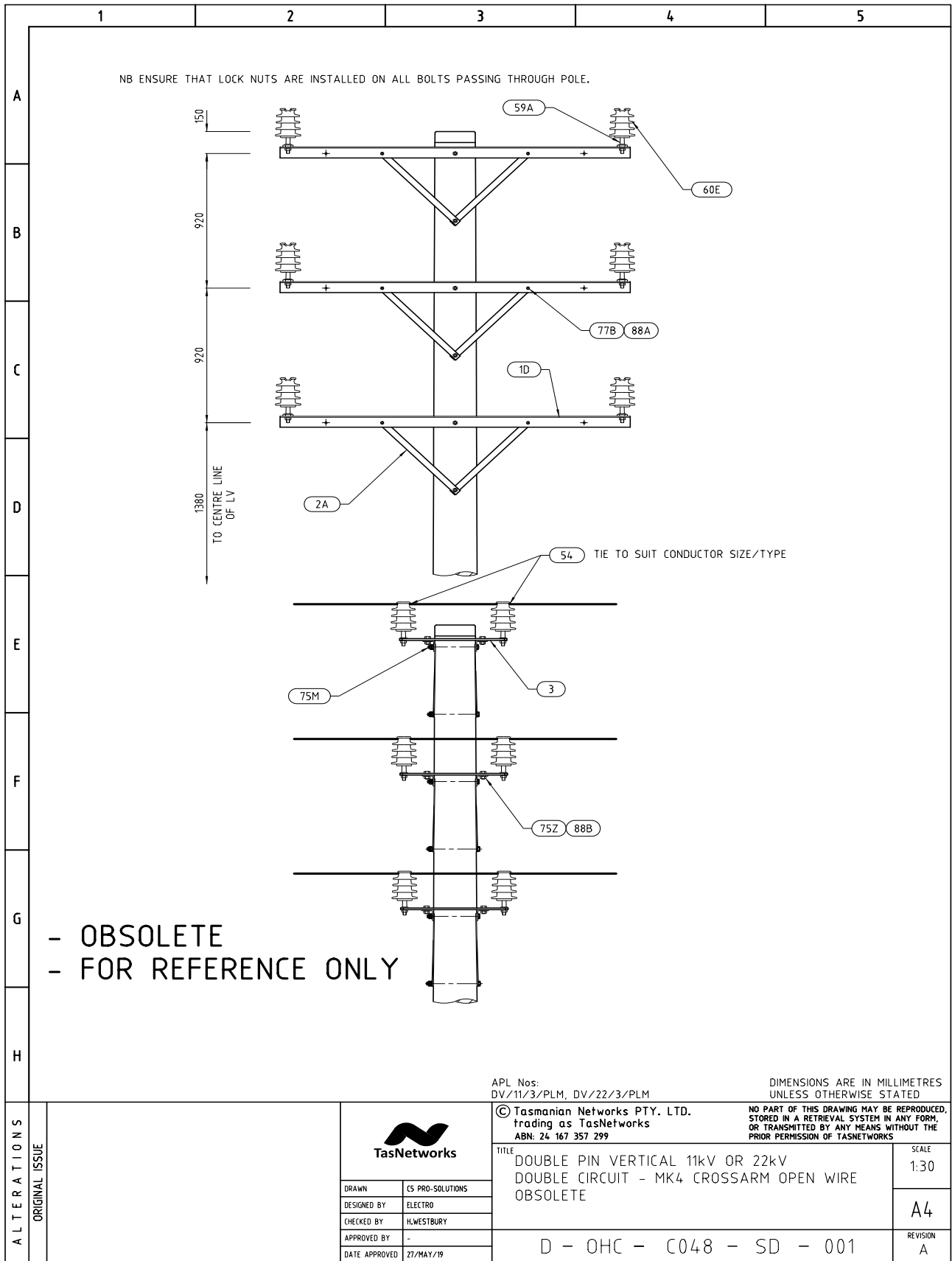


Tee Off Open Wire, Mk7 Crossarm - Material List (Obsolete)


|             |                                    | 1  | 2          | 3   | 4          | 5   |                     |   |
|-------------|------------------------------------|--|------------|---|------------|---|---------------------|---|
| A           |                                    | Unit Assembly  | Store Type | Item Ref  | Stock Item | Description   | Quantity            |   |
|             |                                    | T7/11/1  | S          | 75M   | 032287     | Bolt Hex M16 X 325  | 2                   |   |
|             |                                    | T7/11/1  | S          | 77A   | 033770     | Bolt Tower M12 X 30   | 4                   |   |
|             |                                    | T7/11/1  | S          | 78B   | 033781     | Bolt Tower M16 X 40   | 4                   |   |
|             |                                    | T7/11/1  | S          | 86B   | 065158     | Washer Els 16   | 2                   |   |
|             |                                    | T7/11/1  | S          | 88A   | 066412     | Washer Tower 12   | 4                   |   |
|             |                                    | T7/11/1  | S          | 88B   | 066413     | Washer Tower 16   | 4                   |   |
|             |                                    | T7/11/1  | S          | 60E   | 320531     | Insulator, Pin 22/450   | 1                   |   |
|             |                                    | T7/11/1  | S          | 60G   | 321260     | Insulator, Disc   | 2                   |   |
|             |                                    | T7/11/1  | S          | 61A   | 322056     | Ball Clevis & Pin   | 2                   |   |
|             |                                    | T7/11/1  | S          | 61D   | 322090     | Kink Pin  | 4                   |   |
|             | B                                  |  | T7/11/1    | S   | 61B        | 322386  | Socket Termination  | 2 |
|             |                                    |  | T7/11/1    | S   | 59A        | 322721  | Pin, Insulator 22kV | 1 |
|             |                                    |  | T7/11/1    | S   | 1F         | 323307  | Crossarm Mk7        | 2 |
|             |                                    |  | T7/11/1    | S   | 2A         | 323314  | Crossarm Strap Mk14 | 4 |
|             |                                    | T7/11/1  | S          | 5B  | 323394     | Crossarm Spacer   | 2                   |   |
| C           |                                    |  | T7/11/3    | S   | 75M        | 032287  | Bolt Hex M16 X 325  | 2 |
|             |                                    |  | T7/11/3    | S   | 77A        | 033770  | Bolt Tower M12 X 30 | 4 |
|             |                                    | T7/11/3  | S          | 78B   | 033781     | Bolt Tower M16 X 40   | 4                   |   |
|             |                                    | T7/11/3  | S          | 86B   | 065158     | Washer Els 16   | 2                   |   |
|             |                                    | T7/11/3  | S          | 88A   | 066412     | Washer Tower 12   | 4                   |   |
|             |                                    | T7/11/3  | S          | 88B   | 066413     | Washer Tower 16   | 4                   |   |
|             |                                    | T7/11/3  | S          | 60E   | 320531     | Insulator, Pin 22/450   | 1                   |   |
|             |                                    | T7/11/3  | S          | 60G   | 321260     | Insulator, Disc   | 3                   |   |
|             |                                    | T7/11/3  | S          | 61A   | 322056     | Ball Clevis & Pin   | 3                   |   |
|             |                                    | T7/11/3  | S          | 61D   | 322090     | Kink Pin  | 6                   |   |
|             |                                    | T7/11/3  | S          | 61B   | 322386     | Socket Termination  | 3                   |   |
|             | D                                  |  | T7/11/3    | S   | 59A        | 322721  | Pin, Insulator 22kV | 1 |
|             |                                    |  | T7/11/3    | S   | 1F         | 323307  | Crossarm Mk7        | 2 |
|             |                                    |  | T7/11/3    | S   | 2A         | 323314  | Crossarm Strap Mk14 | 4 |
|             |                                    |  | T7/11/3    | S   | 5B         | 323394  | Crossarm Spacer     | 2 |
| E           |                                    |  | T7/22/1    | S   | 75M        | 032287  | Bolt Hex M16 X 325  | 2 |
|             |                                    |  | T7/22/1    | S   | 77A        | 033770  | Bolt Tower M12 X 30 | 4 |
|             |                                    |  | T7/22/1    | S   | 78B        | 033781  | Bolt Tower M16 X 40 | 4 |
|             |                                    | T7/22/1  | S          | 86B   | 065158     | Washer Els 16   | 2                   |   |
|             |                                    | T7/22/1  | S          | 88A   | 066412     | Washer Tower 12   | 4                   |   |
|             |                                    | T7/22/1  | S          | 88B   | 066413     | Washer Tower 16   | 4                   |   |
|             |                                    | T7/22/1  | S          | 60E   | 320531     | Insulator, Pin 22/450   | 1                   |   |
|             |                                    | T7/22/1  | S          | 60G   | 321260     | Insulator, Disc   | 4                   |   |
|             |                                    | T7/22/1  | S          | 61A   | 322056     | Ball Clevis & Pin   | 2                   |   |
|             |                                    | T7/22/1  | S          | 61D   | 322090     | Kink Pin  | 12                  |   |
|             |                                    | T7/22/1  | S          | 61B   | 322386     | Socket Termination  | 2                   |   |
|             |                                    | T7/22/1  | S          | 59A   | 322721     | Pin, Insulator 22kV   | 1                   |   |
|             |                                    | T7/22/1  | S          | 1F  | 323307     | Crossarm Mk7  | 2                   |   |
|             | F                                  |  | T7/22/1    | S   | 2A         | 323314  | Crossarm Strap Mk14 | 4 |
|             |                                    |  | T7/22/1    | S   | 5B         | 323394  | Crossarm Spacer     | 2 |
| G           |                                    |  | T7/22/3    | S   | 75M        | 032287  | Bolt Hex M16 X 325  | 2 |
|             |                                    |  | T7/22/3    | S   | 77A        | 033770  | Bolt Tower M12 X 30 | 4 |
|             |                                    |  | T7/22/3    | S   | 78B        | 033781  | Bolt Tower M16 X 40 | 4 |
|             |                                    |  | T7/22/3    | S   | 86B        | 065158  | Washer Els 16       | 2 |
|             |                                    |  | T7/22/3    | S   | 88A        | 066412  | Washer Tower 12     | 4 |
|             |                                    | T7/22/3  | S          | 88B   | 066413     | Washer Tower 16   | 4                   |   |
|             |                                    | T7/22/3  | S          | 60E   | 320531     | Insulator, Pin 22/450   | 1                   |   |
|             |                                    | T7/22/3  | S          | 60G   | 321260     | Insulator, Disc   | 6                   |   |
|             |                                    | T7/22/3  | S          | 61A   | 322056     | Ball Clevis & Pin   | 3                   |   |
|             |                                    | T7/22/3  | S          | 61D   | 322090     | Kink Pin  | 18                  |   |
|             |                                    | T7/22/3  | S          | 61B   | 322386     | Socket Termination  | 3                   |   |
|             |                                    | T7/22/3  | S          | 59A   | 322721     | Pin, Insulator 22kV   | 1                   |   |
|             |                                    | T7/22/3  | S          | 1F  | 323307     | Crossarm Mk7  | 2                   |   |
|             |                                    | T7/22/3  | S          | 2A  | 323314     | Crossarm Strap Mk14   | 4                   |   |
|             |                                    | T7/22/3  | S          | 5B  | 323394     | Crossarm Spacer   | 2                   |   |
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|             | - OBSOLETE<br>- FOR REFERENCE ONLY |  |            |   |            |   |                     |   |
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|             |                                    |  |            | TITLE<br>TEE OFF 11kV OR 22kV<br>MK7 CROSSARM OPEN WIRE<br>MATERIALS LIST<br>OBSOLETE |            | SCALE<br>NTS  |                     |   |
|             |                                    | DRAWN<br>CS PRO-SOLUTIONS  |            | DESIGNED BY<br>ELECTRO  |            | A4  |                     |   |
|             |                                    | CHECKED BY<br>H.WESTBURY   |            | APPROVED BY<br>-  |            | REVISION<br>A   |                     |   |
|             |                                    | DATE APPROVED<br>24/MAY/19   |            | D - OHC - C047 - SD - 002   |            |   |                     |   |



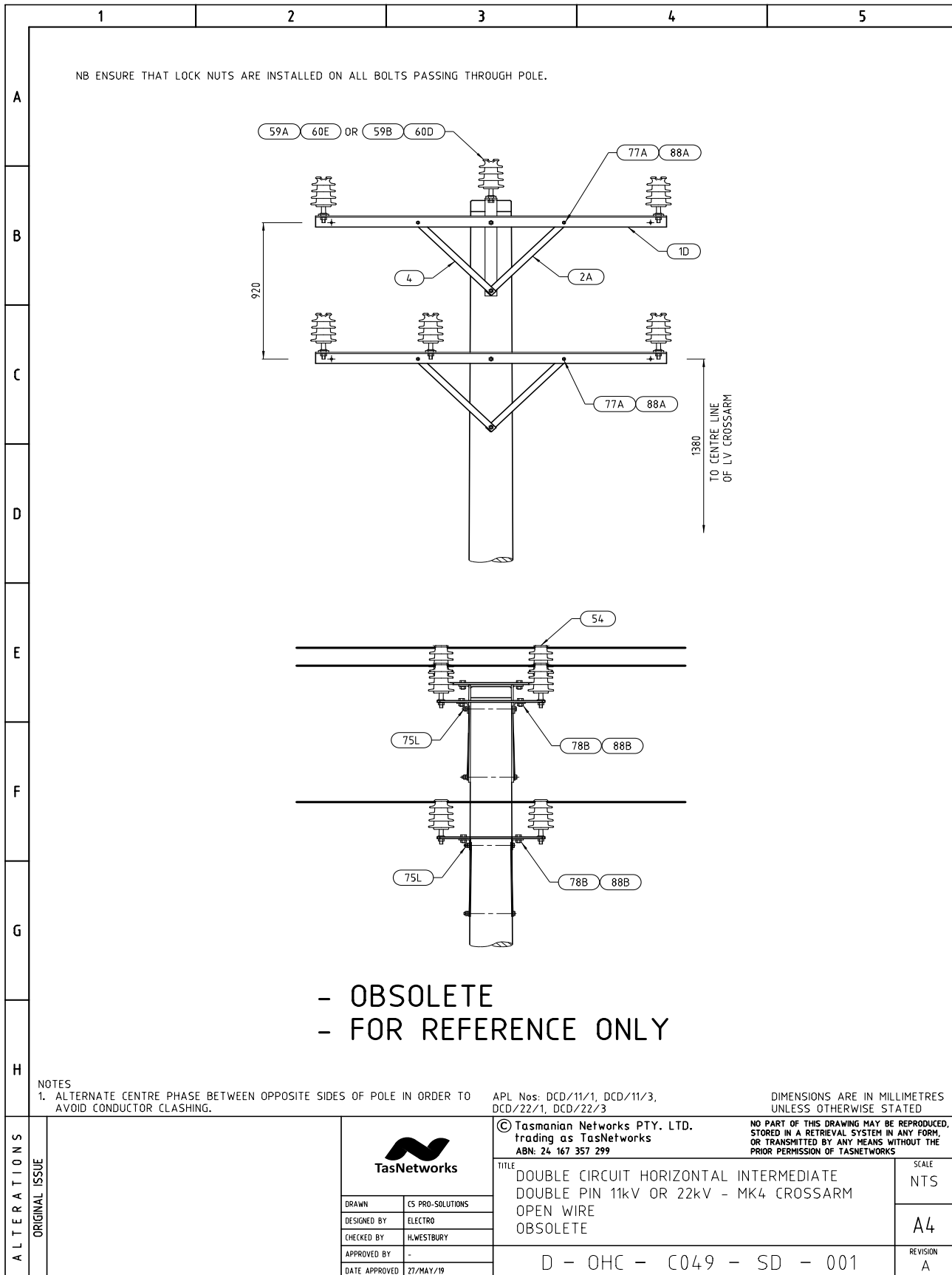
### 3.8 Intermediate Double Pin, Horizontal Double Circuit, Open Wire Mk4 Crossarm (Obsolete)




Intermediate Double Pin, Horizontal Double Circuit, Open Wire - Material List (Obsolete)

|                | 1  | 2   | 3   | 4   | 5                               |               |            |          |            |                        |          |                |   |   |        |                   |   |             |  |    |        |              |   |  |  |     |        |                    |    |  |  |     |        |                      |    |  |  |     |       |                    |   |  |  |     |       |                   |    |  |  |     |       |                     |    |  |  |     |       |         |    |  |  |     |       |               |   |  |  |     |       |                 |    |  |  |     |       |                 |    |  |  |    |        |                     |    |
|----------------|--|---|---|---|---------------------------------|---------------|------------|----------|------------|------------------------|----------|----------------|---|---|--------|-------------------|---|-------------|--|----|--------|--------------|---|--|--|-----|--------|--------------------|----|--|--|-----|--------|----------------------|----|--|--|-----|-------|--------------------|---|--|--|-----|-------|-------------------|----|--|--|-----|-------|---------------------|----|--|--|-----|-------|---------|----|--|--|-----|-------|---------------|---|--|--|-----|-------|-----------------|----|--|--|-----|-------|-----------------|----|--|--|----|--------|---------------------|----|
| A              |  |   |   |   |                                 |               |            |          |            |                        |          |                |   |   |        |                   |   |             |  |    |        |              |   |  |  |     |        |                    |    |  |  |     |        |                      |    |  |  |     |       |                    |   |  |  |     |       |                   |    |  |  |     |       |                     |    |  |  |     |       |         |    |  |  |     |       |               |   |  |  |     |       |                 |    |  |  |     |       |                 |    |  |  |    |        |                     |    |
| B              | <table border="1"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Stock Item Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>DV/11/1/PLMand</td> <td>S</td> <td>3</td> <td>323310</td> <td>Strain Plate Mk10</td> <td>6</td> </tr> <tr> <td>DV/22/1/PLM</td> <td></td> <td>1D</td> <td>323304</td> <td>Crossarm Mk4</td> <td>6</td> </tr> <tr> <td></td> <td></td> <td>59A</td> <td>322721</td> <td>Pin,Insulator 22kV</td> <td>12</td> </tr> <tr> <td></td> <td></td> <td>60E</td> <td>320531</td> <td>Insulator Pin 22/450</td> <td>12</td> </tr> <tr> <td></td> <td></td> <td>75M</td> <td>32287</td> <td>Bolt Hex M16 X 325</td> <td>6</td> </tr> <tr> <td></td> <td></td> <td>75Z</td> <td>32261</td> <td>Bolt Hex M16 X 45</td> <td>12</td> </tr> <tr> <td></td> <td></td> <td>77B</td> <td>33771</td> <td>Bolt Tower M12 X 35</td> <td>12</td> </tr> <tr> <td></td> <td></td> <td>82A</td> <td>40441</td> <td>Nut M16</td> <td>12</td> </tr> <tr> <td></td> <td></td> <td>86B</td> <td>65158</td> <td>Washer Els 16</td> <td>6</td> </tr> <tr> <td></td> <td></td> <td>88A</td> <td>66412</td> <td>Washer Tower 12</td> <td>12</td> </tr> <tr> <td></td> <td></td> <td>88B</td> <td>66413</td> <td>Washer Tower 16</td> <td>12</td> </tr> <tr> <td></td> <td></td> <td>2A</td> <td>323314</td> <td>Crossarm Strap Mk14</td> <td>12</td> </tr> </tbody> </table> |   |   |   |                                 | Unit Assembly | Store Type | Item Ref | Stock Item | Stock Item Description | Quantity | DV/11/1/PLMand | S | 3 | 323310 | Strain Plate Mk10 | 6 | DV/22/1/PLM |  | 1D | 323304 | Crossarm Mk4 | 6 |  |  | 59A | 322721 | Pin,Insulator 22kV | 12 |  |  | 60E | 320531 | Insulator Pin 22/450 | 12 |  |  | 75M | 32287 | Bolt Hex M16 X 325 | 6 |  |  | 75Z | 32261 | Bolt Hex M16 X 45 | 12 |  |  | 77B | 33771 | Bolt Tower M12 X 35 | 12 |  |  | 82A | 40441 | Nut M16 | 12 |  |  | 86B | 65158 | Washer Els 16 | 6 |  |  | 88A | 66412 | Washer Tower 12 | 12 |  |  | 88B | 66413 | Washer Tower 16 | 12 |  |  | 2A | 323314 | Crossarm Strap Mk14 | 12 |
| Unit Assembly  | Store Type   | Item Ref  | Stock Item  | Stock Item Description  | Quantity                        |               |            |          |            |                        |          |                |   |   |        |                   |   |             |  |    |        |              |   |  |  |     |        |                    |    |  |  |     |        |                      |    |  |  |     |       |                    |   |  |  |     |       |                   |    |  |  |     |       |                     |    |  |  |     |       |         |    |  |  |     |       |               |   |  |  |     |       |                 |    |  |  |     |       |                 |    |  |  |    |        |                     |    |
| DV/11/1/PLMand | S  | 3   | 323310  | Strain Plate Mk10   | 6                               |               |            |          |            |                        |          |                |   |   |        |                   |   |             |  |    |        |              |   |  |  |     |        |                    |    |  |  |     |        |                      |    |  |  |     |       |                    |   |  |  |     |       |                   |    |  |  |     |       |                     |    |  |  |     |       |         |    |  |  |     |       |               |   |  |  |     |       |                 |    |  |  |     |       |                 |    |  |  |    |        |                     |    |
| DV/22/1/PLM    |  | 1D  | 323304  | Crossarm Mk4  | 6                               |               |            |          |            |                        |          |                |   |   |        |                   |   |             |  |    |        |              |   |  |  |     |        |                    |    |  |  |     |        |                      |    |  |  |     |       |                    |   |  |  |     |       |                   |    |  |  |     |       |                     |    |  |  |     |       |         |    |  |  |     |       |               |   |  |  |     |       |                 |    |  |  |     |       |                 |    |  |  |    |        |                     |    |
|                |  | 59A   | 322721  | Pin,Insulator 22kV  | 12                              |               |            |          |            |                        |          |                |   |   |        |                   |   |             |  |    |        |              |   |  |  |     |        |                    |    |  |  |     |        |                      |    |  |  |     |       |                    |   |  |  |     |       |                   |    |  |  |     |       |                     |    |  |  |     |       |         |    |  |  |     |       |               |   |  |  |     |       |                 |    |  |  |     |       |                 |    |  |  |    |        |                     |    |
|                |  | 60E   | 320531  | Insulator Pin 22/450  | 12                              |               |            |          |            |                        |          |                |   |   |        |                   |   |             |  |    |        |              |   |  |  |     |        |                    |    |  |  |     |        |                      |    |  |  |     |       |                    |   |  |  |     |       |                   |    |  |  |     |       |                     |    |  |  |     |       |         |    |  |  |     |       |               |   |  |  |     |       |                 |    |  |  |     |       |                 |    |  |  |    |        |                     |    |
|                |  | 75M   | 32287   | Bolt Hex M16 X 325  | 6                               |               |            |          |            |                        |          |                |   |   |        |                   |   |             |  |    |        |              |   |  |  |     |        |                    |    |  |  |     |        |                      |    |  |  |     |       |                    |   |  |  |     |       |                   |    |  |  |     |       |                     |    |  |  |     |       |         |    |  |  |     |       |               |   |  |  |     |       |                 |    |  |  |     |       |                 |    |  |  |    |        |                     |    |
|                |  | 75Z   | 32261   | Bolt Hex M16 X 45   | 12                              |               |            |          |            |                        |          |                |   |   |        |                   |   |             |  |    |        |              |   |  |  |     |        |                    |    |  |  |     |        |                      |    |  |  |     |       |                    |   |  |  |     |       |                   |    |  |  |     |       |                     |    |  |  |     |       |         |    |  |  |     |       |               |   |  |  |     |       |                 |    |  |  |     |       |                 |    |  |  |    |        |                     |    |
|                |  | 77B   | 33771   | Bolt Tower M12 X 35   | 12                              |               |            |          |            |                        |          |                |   |   |        |                   |   |             |  |    |        |              |   |  |  |     |        |                    |    |  |  |     |        |                      |    |  |  |     |       |                    |   |  |  |     |       |                   |    |  |  |     |       |                     |    |  |  |     |       |         |    |  |  |     |       |               |   |  |  |     |       |                 |    |  |  |     |       |                 |    |  |  |    |        |                     |    |
|                |  | 82A   | 40441   | Nut M16   | 12                              |               |            |          |            |                        |          |                |   |   |        |                   |   |             |  |    |        |              |   |  |  |     |        |                    |    |  |  |     |        |                      |    |  |  |     |       |                    |   |  |  |     |       |                   |    |  |  |     |       |                     |    |  |  |     |       |         |    |  |  |     |       |               |   |  |  |     |       |                 |    |  |  |     |       |                 |    |  |  |    |        |                     |    |
|                |  | 86B   | 65158   | Washer Els 16   | 6                               |               |            |          |            |                        |          |                |   |   |        |                   |   |             |  |    |        |              |   |  |  |     |        |                    |    |  |  |     |        |                      |    |  |  |     |       |                    |   |  |  |     |       |                   |    |  |  |     |       |                     |    |  |  |     |       |         |    |  |  |     |       |               |   |  |  |     |       |                 |    |  |  |     |       |                 |    |  |  |    |        |                     |    |
|                |  | 88A   | 66412   | Washer Tower 12   | 12                              |               |            |          |            |                        |          |                |   |   |        |                   |   |             |  |    |        |              |   |  |  |     |        |                    |    |  |  |     |        |                      |    |  |  |     |       |                    |   |  |  |     |       |                   |    |  |  |     |       |                     |    |  |  |     |       |         |    |  |  |     |       |               |   |  |  |     |       |                 |    |  |  |     |       |                 |    |  |  |    |        |                     |    |
|                |  | 88B   | 66413   | Washer Tower 16   | 12                              |               |            |          |            |                        |          |                |   |   |        |                   |   |             |  |    |        |              |   |  |  |     |        |                    |    |  |  |     |        |                      |    |  |  |     |       |                    |   |  |  |     |       |                   |    |  |  |     |       |                     |    |  |  |     |       |         |    |  |  |     |       |               |   |  |  |     |       |                 |    |  |  |     |       |                 |    |  |  |    |        |                     |    |
|                |  | 2A  | 323314  | Crossarm Strap Mk14   | 12                              |               |            |          |            |                        |          |                |   |   |        |                   |   |             |  |    |        |              |   |  |  |     |        |                    |    |  |  |     |        |                      |    |  |  |     |       |                    |   |  |  |     |       |                   |    |  |  |     |       |                     |    |  |  |     |       |         |    |  |  |     |       |               |   |  |  |     |       |                 |    |  |  |     |       |                 |    |  |  |    |        |                     |    |
| C              |  |   |   |   |                                 |               |            |          |            |                        |          |                |   |   |        |                   |   |             |  |    |        |              |   |  |  |     |        |                    |    |  |  |     |        |                      |    |  |  |     |       |                    |   |  |  |     |       |                   |    |  |  |     |       |                     |    |  |  |     |       |         |    |  |  |     |       |               |   |  |  |     |       |                 |    |  |  |     |       |                 |    |  |  |    |        |                     |    |
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| E              |  |   |   |   |                                 |               |            |          |            |                        |          |                |   |   |        |                   |   |             |  |    |        |              |   |  |  |     |        |                    |    |  |  |     |        |                      |    |  |  |     |       |                    |   |  |  |     |       |                   |    |  |  |     |       |                     |    |  |  |     |       |         |    |  |  |     |       |               |   |  |  |     |       |                 |    |  |  |     |       |                 |    |  |  |    |        |                     |    |
| F              |  |   |   |   |                                 |               |            |          |            |                        |          |                |   |   |        |                   |   |             |  |    |        |              |   |  |  |     |        |                    |    |  |  |     |        |                      |    |  |  |     |       |                    |   |  |  |     |       |                   |    |  |  |     |       |                     |    |  |  |     |       |         |    |  |  |     |       |               |   |  |  |     |       |                 |    |  |  |     |       |                 |    |  |  |    |        |                     |    |
| G              |  |   |   |   |                                 |               |            |          |            |                        |          |                |   |   |        |                   |   |             |  |    |        |              |   |  |  |     |        |                    |    |  |  |     |        |                      |    |  |  |     |       |                    |   |  |  |     |       |                   |    |  |  |     |       |                     |    |  |  |     |       |         |    |  |  |     |       |               |   |  |  |     |       |                 |    |  |  |     |       |                 |    |  |  |    |        |                     |    |
| H              |  |   |   |   |                                 |               |            |          |            |                        |          |                |   |   |        |                   |   |             |  |    |        |              |   |  |  |     |        |                    |    |  |  |     |        |                      |    |  |  |     |       |                    |   |  |  |     |       |                   |    |  |  |     |       |                     |    |  |  |     |       |         |    |  |  |     |       |               |   |  |  |     |       |                 |    |  |  |     |       |                 |    |  |  |    |        |                     |    |
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|                |  | DRAWN: ES PRO-SOLUTIONS<br>DESIGNED BY: ELECTRO<br>CHECKED BY: H.WESTBURY<br>APPROVED BY: -<br>DATE APPROVED: 27/MAY/19 | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNWORKS |   | SCALE: NTS<br>A4<br>REVISION: A |               |            |          |            |                        |          |                |   |   |        |                   |   |             |  |    |        |              |   |  |  |     |        |                    |    |  |  |     |        |                      |    |  |  |     |       |                    |   |  |  |     |       |                   |    |  |  |     |       |                     |    |  |  |     |       |         |    |  |  |     |       |               |   |  |  |     |       |                 |    |  |  |     |       |                 |    |  |  |    |        |                     |    |
|                |  | D - OHC - C048 - SD - 002   |   |   |                                 |               |            |          |            |                        |          |                |   |   |        |                   |   |             |  |    |        |              |   |  |  |     |        |                    |    |  |  |     |        |                      |    |  |  |     |       |                    |   |  |  |     |       |                   |    |  |  |     |       |                     |    |  |  |     |       |         |    |  |  |     |       |               |   |  |  |     |       |                 |    |  |  |     |       |                 |    |  |  |    |        |                     |    |

### 3.9 Intermediate Double Pin, Horizontal Open Wire, Mk4 Crossarm (Obsolete)

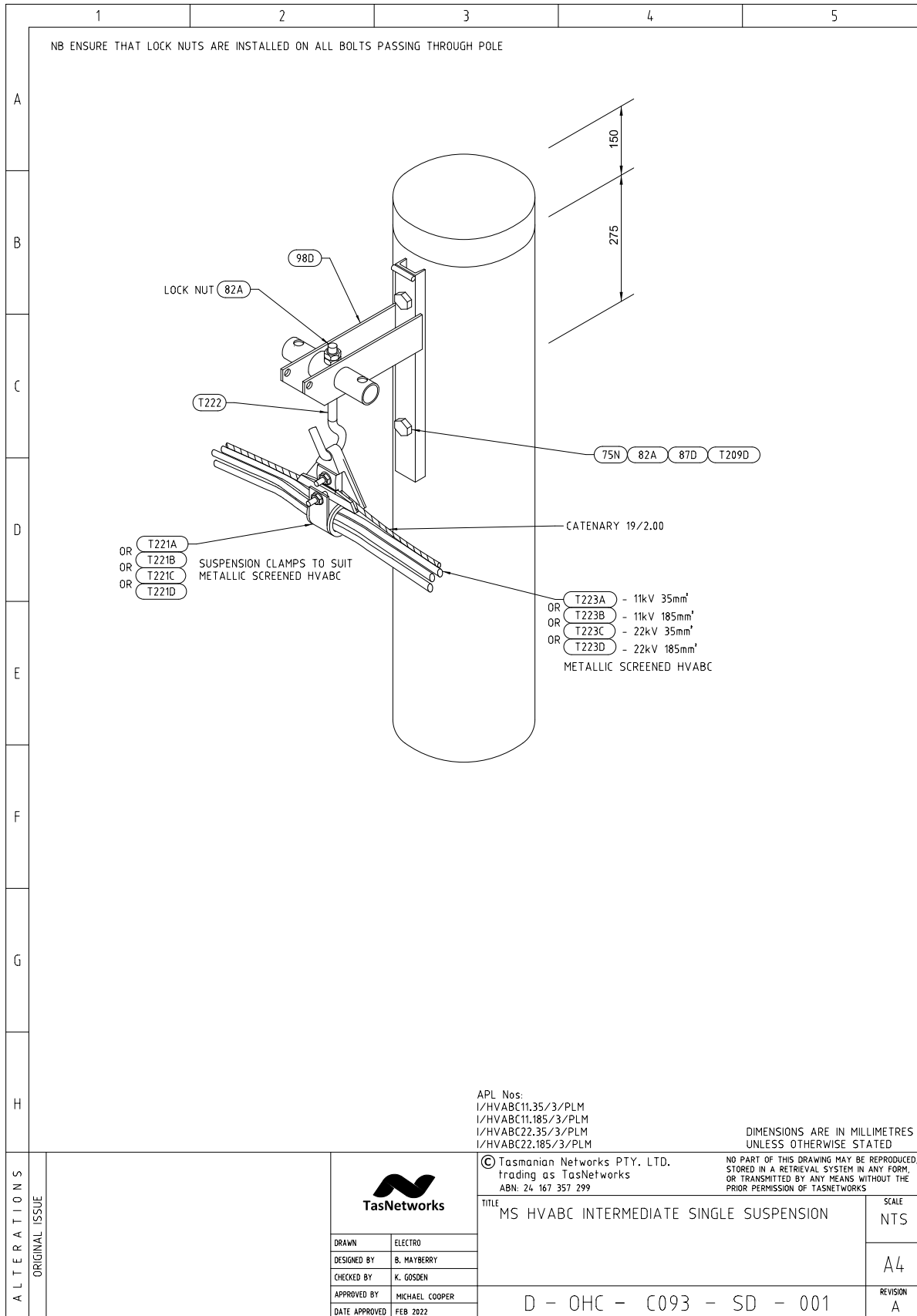


Double Pin Horizontal, Open Wire, Mk4 Crossarm - Material List (Obsolete)


|               | 1   | 2   | 3      | 4   | 5  |               |            |            |                       |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
|---------------|---|---|--------|---|----|---------------|------------|------------|-----------------------|-------------|----------|----------|---|-----|--------|--------------------|---|----------|---|-----|--------|---------------------|---|----------|---|-----|--------|---------------------|----|----------|---|-----|--------|---------|---|----------|---|-----|--------|-----------------|---|----------|---|-----|--------|-----------------|----|----------|---|-----|--------|-----------------------|----|----------|---|-----|--------|---------------------|----|----------|---|----|--------|--------------|---|----------|---|---|--------|-------------------|---|----------|---|----|--------|---------------------|---|----------|---|---|--------|-----------------|---|--|--|--|--|--|--|----------|---|-----|--------|--------------------|---|----------|---|-----|--------|---------------------|---|----------|---|-----|--------|---------------------|----|----------|---|-----|--------|---------|---|----------|---|-----|--------|-----------------|----|----------|---|-----|--------|-----------------|----|----------|---|-----|--------|-----------------------|----|----------|---|-----|--------|---------------------|----|----------|---|----|--------|--------------|---|----------|---|---|--------|-------------------|---|----------|---|----|--------|---------------------|---|----------|---|---|--------|-----------------|---|
| A             | <table border="1"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr><td>DCD/11/3</td><td>S</td><td>75L</td><td>032286</td><td>Bolt Hex M16 X 300</td><td>4</td></tr> <tr><td>DCD/11/3</td><td>S</td><td>77A</td><td>033770</td><td>Bolt Tower M12 X 30</td><td>8</td></tr> <tr><td>DCD/11/3</td><td>S</td><td>78B</td><td>033781</td><td>Bolt Tower M16 X 40</td><td>12</td></tr> <tr><td>DCD/11/3</td><td>S</td><td>82A</td><td>040441</td><td>Nut M16</td><td>4</td></tr> <tr><td>DCD/11/3</td><td>S</td><td>88A</td><td>066412</td><td>Washer Tower 12</td><td>8</td></tr> <tr><td>DCD/11/3</td><td>S</td><td>88B</td><td>066413</td><td>Washer Tower 16</td><td>12</td></tr> <tr><td>DCD/11/3</td><td>S</td><td>60E</td><td>320531</td><td>Insulator, Pin 22/450</td><td>12</td></tr> <tr><td>DCD/11/3</td><td>S</td><td>59A</td><td>322721</td><td>Pin, Insulator 22kv</td><td>12</td></tr> <tr><td>DCD/11/3</td><td>S</td><td>1D</td><td>323304</td><td>Crossarm Mk4</td><td>4</td></tr> <tr><td>DCD/11/3</td><td>S</td><td>3</td><td>323310</td><td>Strain Plate Mk10</td><td>6</td></tr> <tr><td>DCD/11/3</td><td>S</td><td>2A</td><td>323314</td><td>Crossarm Strap Mk14</td><td>8</td></tr> <tr><td>DCD/11/3</td><td>S</td><td>4</td><td>323311</td><td>L' Bracket Mk11</td><td>2</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>DCD/22/3</td><td>S</td><td>75L</td><td>032286</td><td>Bolt Hex M16 X 300</td><td>4</td></tr> <tr><td>DCD/22/3</td><td>S</td><td>77A</td><td>033770</td><td>Bolt Tower M12 X 30</td><td>8</td></tr> <tr><td>DCD/22/3</td><td>S</td><td>78B</td><td>033781</td><td>Bolt Tower M16 X 40</td><td>12</td></tr> <tr><td>DCD/22/3</td><td>S</td><td>82A</td><td>040441</td><td>Nut M16</td><td>6</td></tr> <tr><td>DCD/22/3</td><td>S</td><td>88A</td><td>066412</td><td>Washer Tower 12</td><td>12</td></tr> <tr><td>DCD/22/3</td><td>S</td><td>88B</td><td>066413</td><td>Washer Tower 16</td><td>12</td></tr> <tr><td>DCD/22/3</td><td>S</td><td>60E</td><td>320531</td><td>Insulator, Pin 22/450</td><td>12</td></tr> <tr><td>DCD/22/3</td><td>S</td><td>59A</td><td>322721</td><td>Pin, Insulator 22kv</td><td>12</td></tr> <tr><td>DCD/22/3</td><td>S</td><td>1D</td><td>323304</td><td>Crossarm Mk4</td><td>4</td></tr> <tr><td>DCD/22/3</td><td>S</td><td>3</td><td>323310</td><td>Strain Plate Mk10</td><td>6</td></tr> <tr><td>DCD/22/3</td><td>S</td><td>2A</td><td>323314</td><td>Crossarm Strap Mk14</td><td>8</td></tr> <tr><td>DCD/22/3</td><td>S</td><td>4</td><td>323311</td><td>L' Bracket Mk11</td><td>2</td></tr> </tbody> </table> |   |        |   |    | Unit Assembly | Store Type | Item Ref   | Stock Item            | Description | Quantity | DCD/11/3 | S | 75L | 032286 | Bolt Hex M16 X 300 | 4 | DCD/11/3 | S | 77A | 033770 | Bolt Tower M12 X 30 | 8 | DCD/11/3 | S | 78B | 033781 | Bolt Tower M16 X 40 | 12 | DCD/11/3 | S | 82A | 040441 | Nut M16 | 4 | DCD/11/3 | S | 88A | 066412 | Washer Tower 12 | 8 | DCD/11/3 | S | 88B | 066413 | Washer Tower 16 | 12 | DCD/11/3 | S | 60E | 320531 | Insulator, Pin 22/450 | 12 | DCD/11/3 | S | 59A | 322721 | Pin, Insulator 22kv | 12 | DCD/11/3 | S | 1D | 323304 | Crossarm Mk4 | 4 | DCD/11/3 | S | 3 | 323310 | Strain Plate Mk10 | 6 | DCD/11/3 | S | 2A | 323314 | Crossarm Strap Mk14 | 8 | DCD/11/3 | S | 4 | 323311 | L' Bracket Mk11 | 2 |  |  |  |  |  |  | DCD/22/3 | S | 75L | 032286 | Bolt Hex M16 X 300 | 4 | DCD/22/3 | S | 77A | 033770 | Bolt Tower M12 X 30 | 8 | DCD/22/3 | S | 78B | 033781 | Bolt Tower M16 X 40 | 12 | DCD/22/3 | S | 82A | 040441 | Nut M16 | 6 | DCD/22/3 | S | 88A | 066412 | Washer Tower 12 | 12 | DCD/22/3 | S | 88B | 066413 | Washer Tower 16 | 12 | DCD/22/3 | S | 60E | 320531 | Insulator, Pin 22/450 | 12 | DCD/22/3 | S | 59A | 322721 | Pin, Insulator 22kv | 12 | DCD/22/3 | S | 1D | 323304 | Crossarm Mk4 | 4 | DCD/22/3 | S | 3 | 323310 | Strain Plate Mk10 | 6 | DCD/22/3 | S | 2A | 323314 | Crossarm Strap Mk14 | 8 | DCD/22/3 | S | 4 | 323311 | L' Bracket Mk11 | 2 |
| Unit Assembly |   |   |        |   |    | Store Type    | Item Ref   | Stock Item | Description           | Quantity    |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/11/3      |   |   |        |   |    | S             | 75L        | 032286     | Bolt Hex M16 X 300    | 4           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/11/3      |   |   |        |   |    | S             | 77A        | 033770     | Bolt Tower M12 X 30   | 8           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/11/3      |   |   |        |   |    | S             | 78B        | 033781     | Bolt Tower M16 X 40   | 12          |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/11/3      |   |   |        |   |    | S             | 82A        | 040441     | Nut M16               | 4           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/11/3      |   |   |        |   |    | S             | 88A        | 066412     | Washer Tower 12       | 8           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/11/3      |   |   |        |   |    | S             | 88B        | 066413     | Washer Tower 16       | 12          |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/11/3      |   |   |        |   |    | S             | 60E        | 320531     | Insulator, Pin 22/450 | 12          |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/11/3      |   |   |        |   |    | S             | 59A        | 322721     | Pin, Insulator 22kv   | 12          |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/11/3      |   |   |        |   |    | S             | 1D         | 323304     | Crossarm Mk4          | 4           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/11/3      |   |   |        |   |    | S             | 3          | 323310     | Strain Plate Mk10     | 6           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/11/3      |   |   |        |   |    | S             | 2A         | 323314     | Crossarm Strap Mk14   | 8           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/11/3      |   |   |        |   |    | S             | 4          | 323311     | L' Bracket Mk11       | 2           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
|               |   |   |        |   |    |               |            |            |                       |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/22/3      |   |   |        |   |    | S             | 75L        | 032286     | Bolt Hex M16 X 300    | 4           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/22/3      |   |   |        |   |    | S             | 77A        | 033770     | Bolt Tower M12 X 30   | 8           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/22/3      |   |   |        |   |    | S             | 78B        | 033781     | Bolt Tower M16 X 40   | 12          |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/22/3      |   |   |        |   |    | S             | 82A        | 040441     | Nut M16               | 6           |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/22/3      |   |   |        |   |    | S             | 88A        | 066412     | Washer Tower 12       | 12          |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/22/3      | S   | 88B   | 066413 | Washer Tower 16   | 12 |               |            |            |                       |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/22/3      | S   | 60E   | 320531 | Insulator, Pin 22/450   | 12 |               |            |            |                       |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/22/3      | S   | 59A   | 322721 | Pin, Insulator 22kv   | 12 |               |            |            |                       |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/22/3      | S   | 1D  | 323304 | Crossarm Mk4  | 4  |               |            |            |                       |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/22/3      | S   | 3   | 323310 | Strain Plate Mk10   | 6  |               |            |            |                       |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/22/3      | S   | 2A  | 323314 | Crossarm Strap Mk14   | 8  |               |            |            |                       |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| DCD/22/3      | S   | 4   | 323311 | L' Bracket Mk11   | 2  |               |            |            |                       |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| B             |   |   |        |   |    |               |            |            |                       |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| C             |   |   |        |   |    |               |            |            |                       |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| D             |   |   |        |   |    |               |            |            |                       |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| E             | <p>- OBSOLETE<br/>- FOR REFERENCE ONLY</p>  |   |        |   |    |               |            |            |                       |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| F             |   |   |        |   |    |               |            |            |                       |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| G             |   |   |        |   |    |               |            |            |                       |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| H             |   |   |        |   |    |               |            |            |                       |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
| ALTERATIONS   | ORIGINAL ISSUE  |    |        | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299   |    |               |            |            |                       |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
|               |   | TITLE<br>DOUBLE CIRCUIT HORIZONTAL INTERMEDIATE<br>DOUBLE PIN 11kV OR 22kV MK4 CROSSARM<br>OPEN WIRE MATERIALS LIST<br>OBSOLETE |        | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNETWORKS |    |               |            |            |                       |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
|               |   | SCALE<br>NTS  |        | REVISION<br>A   |    |               |            |            |                       |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |
|               |   | DRAWN CS PRO-SOLUTIONS<br>DESIGNED BY ELECTRO<br>CHECKED BY H.WESTBURY<br>APPROVED BY -<br>DATE APPROVED 27/MAY/19              |        | D - OHC - C049 - SD - 002   |    |               |            |            |                       |             |          |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |   |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |  |  |  |  |  |  |          |   |     |        |                    |   |          |   |     |        |                     |   |          |   |     |        |                     |    |          |   |     |        |         |   |          |   |     |        |                 |    |          |   |     |        |                 |    |          |   |     |        |                       |    |          |   |     |        |                     |    |          |   |    |        |              |   |          |   |   |        |                   |   |          |   |    |        |                     |   |          |   |   |        |                 |   |

# METALLIC SCREENED HVABC

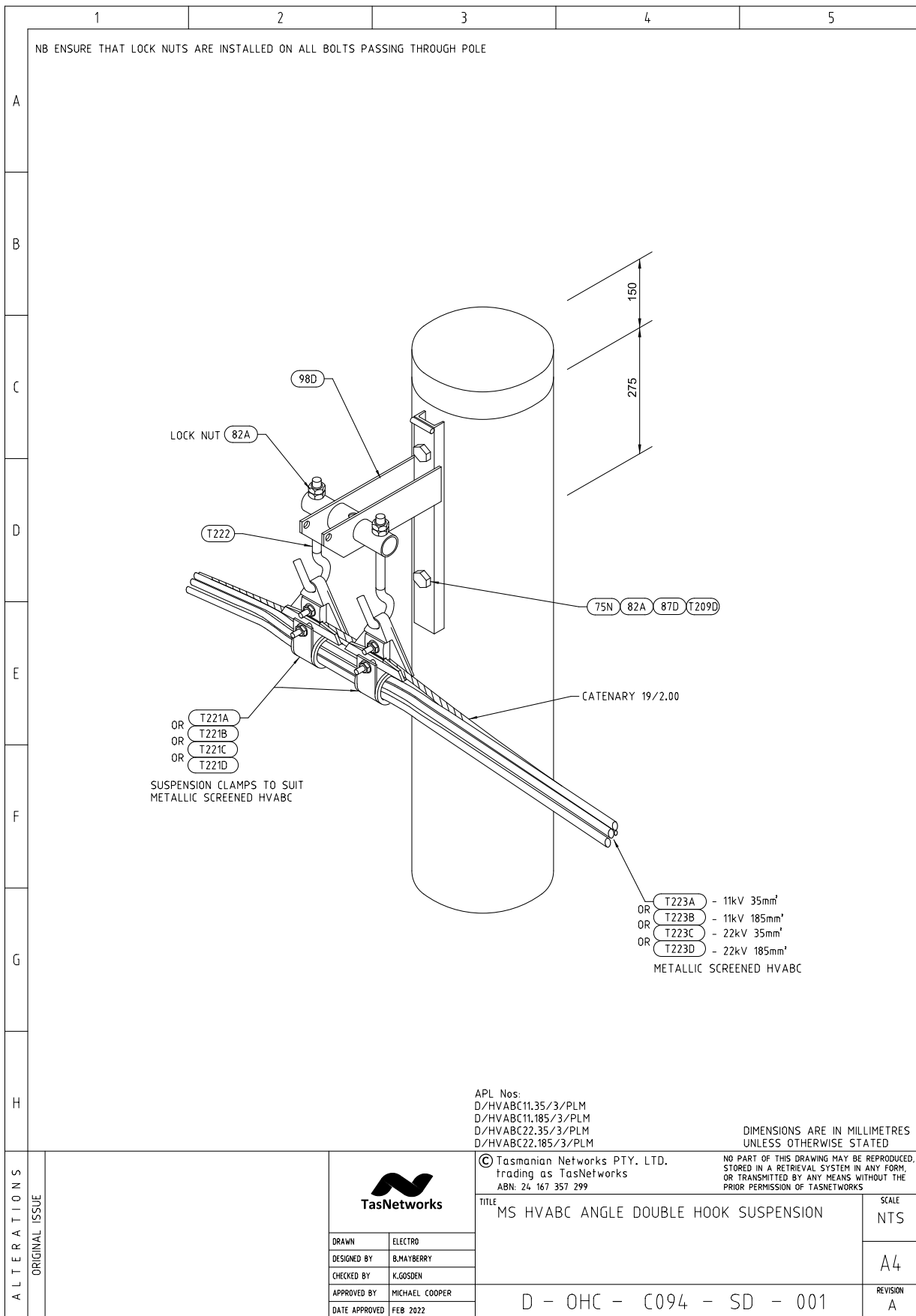
## 3.1 MS HVABC Intermediate Single Suspension




MS HVABC Intermediate Single Suspension - Material List

|   | 1  | 2   | 3          | 4   | 5        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|---|--|---|------------|---|----------|-------------|-------------|------------|------------|------------------------|----------------|-------------------------|----------|---|-------|--|---|-----|-------|-------------|---|-----|-------|---------------|---|-----|--------|------------------------|---|-------|-------|---|---|-------|-----|---|---|------|--------|---|---|-------|-----|--|---|
| A   |  |   |            |   |          |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
| B   | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;"></th> <th style="width: 10%;">Store Type</th> <th style="width: 10%;">Item Ref</th> <th style="width: 10%;">Stock Item</th> <th style="width: 45%;">Stock Item Description</th> <th style="width: 10%;">Quantity</th> </tr> </thead> <tbody> <tr> <td rowspan="8">D/HVABC11.35<br/>/3/PLM</td> <td rowspan="8">S</td> <td>75N</td> <td>32287</td> <td>Bolt Hex M16 X 350 - Thread Length 57mm</td> <td>2</td> </tr> <tr> <td>82A</td> <td>40441</td> <td>Nut Hex M16</td> <td>8</td> </tr> <tr> <td>87D</td> <td>65616</td> <td>Washer NS M16</td> <td>2</td> </tr> <tr> <td>98D</td> <td>149119</td> <td>HVABC Mounting Bracket</td> <td>1</td> </tr> <tr> <td>T209D</td> <td>66807</td> <td>M16 ELS-V Square Washer 50 x 50 x 4.0mm, Diagonal 70.7mm.</td> <td>2</td> </tr> <tr> <td>T221A</td> <td>NEW</td> <td>Metallic Screen HV ABC Suspension Clamp 11kV 35mm2 (TYCO IBSH1050)</td> <td>2</td> </tr> <tr> <td>T222</td> <td>145601</td> <td>HV ABC Suspension Hook M16 (TYCO HB16200)</td> <td>2</td> </tr> <tr> <td>T223A</td> <td>NEW</td> <td>Metallic Screen HV ABC Cable 11kV 35mm2 (Olex Product Code UJHA18AA003)</td> <td>1</td> </tr> </tbody> </table>    |   |            |   |          |             | Store Type  | Item Ref   | Stock Item | Stock Item Description | Quantity       | D/HVABC11.35<br>/3/PLM  | S        | 75N   | 32287 | Bolt Hex M16 X 350 - Thread Length 57mm                  | 2 | 82A | 40441 | Nut Hex M16 | 8 | 87D | 65616 | Washer NS M16 | 2 | 98D | 149119 | HVABC Mounting Bracket | 1 | T209D | 66807 | M16 ELS-V Square Washer 50 x 50 x 4.0mm, Diagonal 70.7mm. | 2 | T221A | NEW | Metallic Screen HV ABC Suspension Clamp 11kV 35mm2 (TYCO IBSH1050)  | 2 | T222 | 145601 | HV ABC Suspension Hook M16 (TYCO HB16200) | 2 | T223A | NEW | Metallic Screen HV ABC Cable 11kV 35mm2 (Olex Product Code UJHA18AA003)  | 1 |
|   | Store Type   | Item Ref  | Stock Item | Stock Item Description  | Quantity |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
| D/HVABC11.35<br>/3/PLM                              | S  | 75N   | 32287      | Bolt Hex M16 X 350 - Thread Length 57mm   | 2        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | 82A   | 40441      | Nut Hex M16   | 8        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | 87D   | 65616      | Washer NS M16   | 2        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | 98D   | 149119     | HVABC Mounting Bracket  | 1        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | T209D   | 66807      | M16 ELS-V Square Washer 50 x 50 x 4.0mm, Diagonal 70.7mm.                       | 2        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | T221A   | NEW        | Metallic Screen HV ABC Suspension Clamp 11kV 35mm2 (TYCO IBSH1050)              | 2        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | T222  | 145601     | HV ABC Suspension Hook M16 (TYCO HB16200)                                       | 2        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | T223A   | NEW        | Metallic Screen HV ABC Cable 11kV 35mm2 (Olex Product Code UJHA18AA003)         | 1        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
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|   | Store Type   | Item Ref  | Stock Item | Stock Item Description  | Quantity |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
| D/HVABC11.18<br>5/3/PLM                             | S  | 75N   | 32287      | Bolt Hex M16 X 350 - Thread Length 57mm   | 2        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | 82A   | 40441      | Nut Hex M16   | 8        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | 87D   | 65616      | Washer NS M16   | 2        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | 98D   | 149119     | HVABC Mounting Bracket  | 1        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | T209D   | 66807      | M16 ELS-V Square Washer 50 x 50 x 4.0mm, Diagonal 70.7mm.                       | 2        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | T221B   | NEW        | Metallic Screen HV ABC Suspension Clamp 11kV 185mm2 (TYCO IBSH1075)             | 2        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | T222  | 145601     | HV ABC Suspension Hook M16 (TYCO HB16200)                                       | 2        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | T223B   | NEW        | Metallic Screen HV ABC Cable 11kV 185mm2 (Olex Product Code UJHA25AA003)        | 1        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
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|   | Store Type   | Item Ref  | Stock Item | Stock Item Description  | Quantity |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
| D/HVABC22.35<br>/3/PLM                              | S  | 75N   | 32287      | Bolt Hex M16 X 350 - Thread Length 57mm   | 2        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | 82A   | 40441      | Nut Hex M16   | 8        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | 87D   | 65616      | Washer NS M16   | 2        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | 98D   | 149119     | HVABC Mounting Bracket  | 1        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | T209D   | 66807      | M16 ELS-V Square Washer 50 x 50 x 4.0mm, Diagonal 70.7mm.                       | 2        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | T221C   | NEW        | Metallic Screen HV ABC Suspension Clamp 22kV 35mm2 (TYCO IBSH1060)              | 2        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | T222  | 145601     | HV ABC Suspension Hook M16 (TYCO HB16200)                                       | 2        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | T223C   | NEW        | Metallic Screen HV ABC Cable 22kV 35mm2 (Olex Product Code ULHA18AA003)         | 1        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
| E   | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;"></th> <th style="width: 10%;">Store Type</th> <th style="width: 10%;">Item Ref</th> <th style="width: 10%;">Stock Item</th> <th style="width: 45%;">Stock Item Description</th> <th style="width: 10%;">Quantity</th> </tr> </thead> <tbody> <tr> <td rowspan="8">D/HVABC22.18<br/>5/3/PLM</td> <td rowspan="8">S</td> <td>75N</td> <td>32287</td> <td>Bolt Hex M16 X 350 - Thread Length 57mm</td> <td>2</td> </tr> <tr> <td>82A</td> <td>40441</td> <td>Nut Hex M16</td> <td>8</td> </tr> <tr> <td>87D</td> <td>65616</td> <td>Washer NS M16</td> <td>2</td> </tr> <tr> <td>98D</td> <td>149119</td> <td>HVABC Mounting Bracket</td> <td>1</td> </tr> <tr> <td>T209D</td> <td>66807</td> <td>M16 ELS-V Square Washer 50 x 50 x 4.0mm, Diagonal 70.7mm.</td> <td>2</td> </tr> <tr> <td>T221D</td> <td>NEW</td> <td>Metallic Screen HV ABC Suspension Clamp 22kV 185mm2 (TYCO IBSH1085)</td> <td>2</td> </tr> <tr> <td>T222</td> <td>145601</td> <td>HV ABC Suspension Hook M16 (TYCO HB16200)</td> <td>2</td> </tr> <tr> <td>T223D</td> <td>NEW</td> <td>Metallic Screen HV ABC Cable 22kV 185mm2 (Olex Product Code ULHA25AA003)</td> <td>1</td> </tr> </tbody> </table> |   |            |   |          |             | Store Type  | Item Ref   | Stock Item | Stock Item Description | Quantity       | D/HVABC22.18<br>5/3/PLM | S        | 75N   | 32287 | Bolt Hex M16 X 350 - Thread Length 57mm                  | 2 | 82A | 40441 | Nut Hex M16 | 8 | 87D | 65616 | Washer NS M16 | 2 | 98D | 149119 | HVABC Mounting Bracket | 1 | T209D | 66807 | M16 ELS-V Square Washer 50 x 50 x 4.0mm, Diagonal 70.7mm. | 2 | T221D | NEW | Metallic Screen HV ABC Suspension Clamp 22kV 185mm2 (TYCO IBSH1085) | 2 | T222 | 145601 | HV ABC Suspension Hook M16 (TYCO HB16200) | 2 | T223D | NEW | Metallic Screen HV ABC Cable 22kV 185mm2 (Olex Product Code ULHA25AA003) | 1 |
|   | Store Type   | Item Ref  | Stock Item | Stock Item Description  | Quantity |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
| D/HVABC22.18<br>5/3/PLM                             | S  | 75N   | 32287      | Bolt Hex M16 X 350 - Thread Length 57mm   | 2        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | 82A   | 40441      | Nut Hex M16   | 8        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | 87D   | 65616      | Washer NS M16   | 2        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | 98D   | 149119     | HVABC Mounting Bracket  | 1        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | T209D   | 66807      | M16 ELS-V Square Washer 50 x 50 x 4.0mm, Diagonal 70.7mm.                       | 2        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | T221D   | NEW        | Metallic Screen HV ABC Suspension Clamp 22kV 185mm2 (TYCO IBSH1085)             | 2        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | T222  | 145601     | HV ABC Suspension Hook M16 (TYCO HB16200)                                       | 2        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | T223D   | NEW        | Metallic Screen HV ABC Cable 22kV 185mm2 (Olex Product Code ULHA25AA003)        | 1        |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
| F   |  |   |            |   |          |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
| G   |  |   |            |   |          |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
| H   |  |   |            |   |          |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
| A<br>L<br>T<br>E<br>R<br>A<br>T<br>I<br>O<br>N<br>S | O<br>R<br>I<br>G<br>I<br>N<br>A<br>L<br>I<br>S<br>S<br>U<br>E  | <br><b>TasNetworks</b>   |            | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299 |          |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DRAWN</td> <td style="width: 50%;">ELECTRO</td> </tr> <tr> <td>DESIGNED BY</td> <td>B. MAYBERRY</td> </tr> <tr> <td>CHECKED BY</td> <td>K. GOSDEN</td> </tr> <tr> <td>APPROVED BY</td> <td>MICHAEL COOPER</td> </tr> <tr> <td>DATE APPROVED</td> <td>FEB 2022</td> </tr> </table> |            | DRAWN   | ELECTRO  | DESIGNED BY | B. MAYBERRY | CHECKED BY | K. GOSDEN  | APPROVED BY            | MICHAEL COOPER | DATE APPROVED           | FEB 2022 | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNWORKS |       | DIMENSIONS ARE IN MILLIMETRES<br>UNLESS OTHERWISE STATED |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
| DRAWN   | ELECTRO  |   |            |   |          |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
| DESIGNED BY   | B. MAYBERRY  |   |            |   |          |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
| CHECKED BY  | K. GOSDEN  |   |            |   |          |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
| APPROVED BY   | MICHAEL COOPER   |   |            |   |          |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
| DATE APPROVED                                       | FEB 2022   |   |            |   |          |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | TITLE<br>MS HVABC INTERMEDIATE, SINGLE SUSPENSION<br>MATERIALS LIST   |            | SCALE<br>NTS<br>A4  |          |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |
|   |  | D - OHC - C093 - SD - 002   |            | REVISION<br>A   |          |             |             |            |            |                        |                |                         |          |   |       |  |   |     |       |             |   |     |       |               |   |     |        |                        |   |       |       |   |   |       |     |   |   |      |        |   |   |       |     |  |   |

### 3.2 MS HVABC Angle Double Hook Suspension

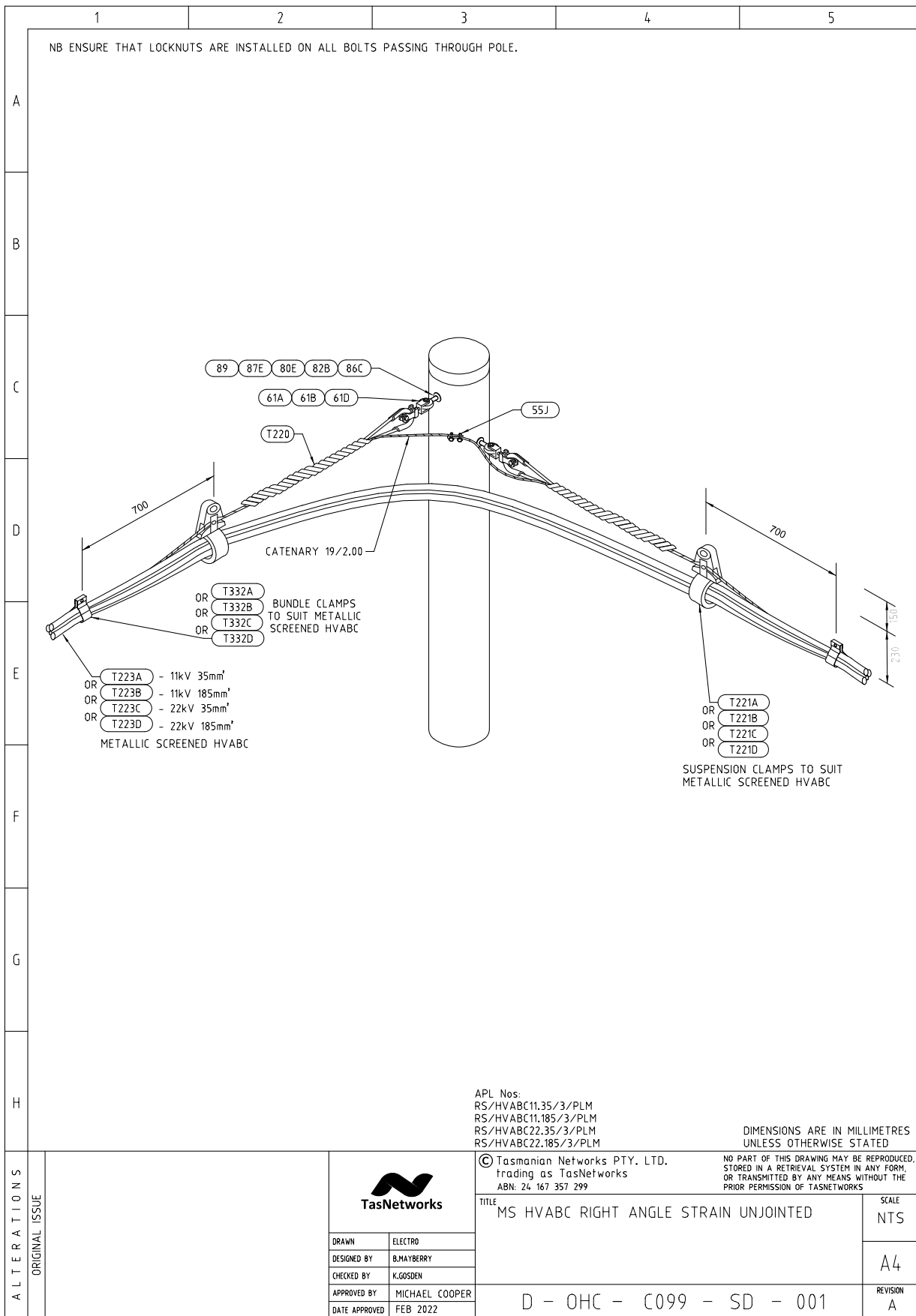


MS HVABC Angle Double Hook Suspension - Material List


|   |   |   |                 |   |  |   |               |
|---|---|---|-----------------|---|--|---|---------------|
|   |   | 1   | 2               | 3   | 4  | 5   |               |
| A   |   |   |                 |   |  |   |               |
| B   |   |   |                 |   |  |   |               |
| C   |   | <b>Store Type</b>   | <b>Item Ref</b> | <b>Stock Item</b>   | <b>Stock Item Description</b>  | <b>Quantity</b>   |               |
|   | D/HVABC11.35<br>/3/PLM  | S   | 75N             | 32287   | Bolt Hex M16 X 350 - Thread Length 57mm                                  | 2   |               |
|   |   |   | 82A             | 40441   | Nut Hex M16  | 8   |               |
|   |   |   | 87D             | 65616   | Washer NS M16  | 2   |               |
|   |   |   | 98D             | 149119  | HVABC Mounting Bracket   | 1   |               |
|   |   |   | T209D           | 66807   | M16 ELS-V Square Washer 50 x 50 x 4.0mm, Diagonal 70.7mm.                | 2   |               |
|   |   |   | T221A           | NEW   | Metallic Screen HV ABC Suspension Clamp 11kV 35mm2 (TYCO IBSH1050)       | 2   |               |
|   |   |   | T222            | 145601  | HV ABC Suspension Hook M16 (TYCO HB16200)                                | 2   |               |
|   |   |   | T223A           | NEW   | Metallic Screen HV ABC Cable 11kV 35mm2 (Olex Product Code UJHA18AA003)  | 1   |               |
| D   |   | <b>Store Type</b>   | <b>Item Ref</b> | <b>Stock Item</b>   | <b>Stock Item Description</b>  | <b>Quantity</b>   |               |
|   | D/HVABC11.18<br>5/3/PLM                                       | S   | 75N             | 32287   | Bolt Hex M16 X 350 - Thread Length 57mm                                  | 2   |               |
|   |   |   | 82A             | 40441   | Nut Hex M16  | 8   |               |
|   |   |   | 87D             | 65616   | Washer NS M16  | 2   |               |
|   |   |   | 98D             | 149119  | HVABC Mounting Bracket   | 1   |               |
|   |   |   | T209D           | 66807   | M16 ELS-V Square Washer 50 x 50 x 4.0mm, Diagonal 70.7mm.                | 2   |               |
|   |   |   | T221B           | NEW   | Metallic Screen HV ABC Suspension Clamp 11kV 185mm2 (TYCO IBSH1075)      | 2   |               |
|   |   |   | T222            | 145601  | HV ABC Suspension Hook M16 (TYCO HB16200)                                | 2   |               |
|   |   |   | T223B           | NEW   | Metallic Screen HV ABC Cable 11kV 185mm2 (Olex Product Code UJHA25AA003) | 1   |               |
| E   |   | <b>Store Type</b>   | <b>Item Ref</b> | <b>Stock Item</b>   | <b>Stock Item Description</b>  | <b>Quantity</b>   |               |
|   | D/HVABC22.35<br>/3/PLM  | S   | 75N             | 32287   | Bolt Hex M16 X 350 - Thread Length 57mm                                  | 2   |               |
|   |   |   | 82A             | 40441   | Nut Hex M16  | 8   |               |
|   |   |   | 87D             | 65616   | Washer NS M16  | 2   |               |
|   |   |   | 98D             | 149119  | HVABC Mounting Bracket   | 1   |               |
|   |   |   | T209D           | 66807   | M16 ELS-V Square Washer 50 x 50 x 4.0mm, Diagonal 70.7mm.                | 2   |               |
|   |   |   | T221C           | NEW   | Metallic Screen HV ABC Suspension Clamp 22kV 35mm2 (TYCO IBSH1060)       | 2   |               |
|   |   |   | T222            | 145601  | HV ABC Suspension Hook M16 (TYCO HB16200)                                | 2   |               |
|   |   |   | T223C           | NEW   | Metallic Screen HV ABC Cable 22kV 35mm2 (Olex Product Code ULHA18AA003)  | 1   |               |
| F   |   | <b>Store Type</b>   | <b>Item Ref</b> | <b>Stock Item</b>   | <b>Stock Item Description</b>  | <b>Quantity</b>   |               |
|   | D/HVABC22.18<br>5/3/PLM                                       | S   | 75N             | 32287   | Bolt Hex M16 X 350 - Thread Length 57mm                                  | 2   |               |
|   |   |   | 82A             | 40441   | Nut Hex M16  | 8   |               |
|   |   |   | 87D             | 65616   | Washer NS M16  | 2   |               |
|   |   |   | 98D             | 149119  | HVABC Mounting Bracket   | 1   |               |
|   |   |   | T209D           | 66807   | M16 ELS-V Square Washer 50 x 50 x 4.0mm, Diagonal 70.7mm.                | 2   |               |
|   |   |   | T221D           | NEW   | Metallic Screen HV ABC Suspension Clamp 22kV 185mm2 (TYCO IBSH1085)      | 2   |               |
|   |   |   | T222            | 145601  | HV ABC Suspension Hook M16 (TYCO HB16200)                                | 2   |               |
|   |   |   | T223D           | NEW   | Metallic Screen HV ABC Cable 22kV 185mm2 (Olex Product Code ULHA25AA003) | 1   |               |
| G   |   |   |                 |   |  |   |               |
| H   |   |   |                 |   |  |   |               |
| A<br>L<br>T<br>E<br>R<br>A<br>T<br>I<br>O<br>N<br>S | O<br>R<br>I<br>G<br>I<br>N<br>A<br>L<br>I<br>S<br>S<br>U<br>E |  |                 | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299   |  | DIMENSIONS ARE IN MILLIMETRES<br>UNLESS OTHERWISE STATED<br><br>NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNETWORKS |               |
|   |   |   |                 | TITLE<br>MS HVABC ANGLE DOUBLE HOOK SUSPENSION<br>MATERIALS LIST  |  |   | SCALE<br>NTS  |
|   |   |   |                 | DRAWN: ELECTRO<br>DESIGNED BY: B.MAYBERRY<br>CHECKED BY: K.GOSDEN<br>APPROVED BY: MICHAEL COOPER<br>DATE APPROVED: FEB 2022 |  |   | A4            |
|   |   |   |                 | D - OHC - C094 - SD - 002   |  |   | REVISION<br>A |



### 3.3 MS HVABC Right Angle Strain Unjointed

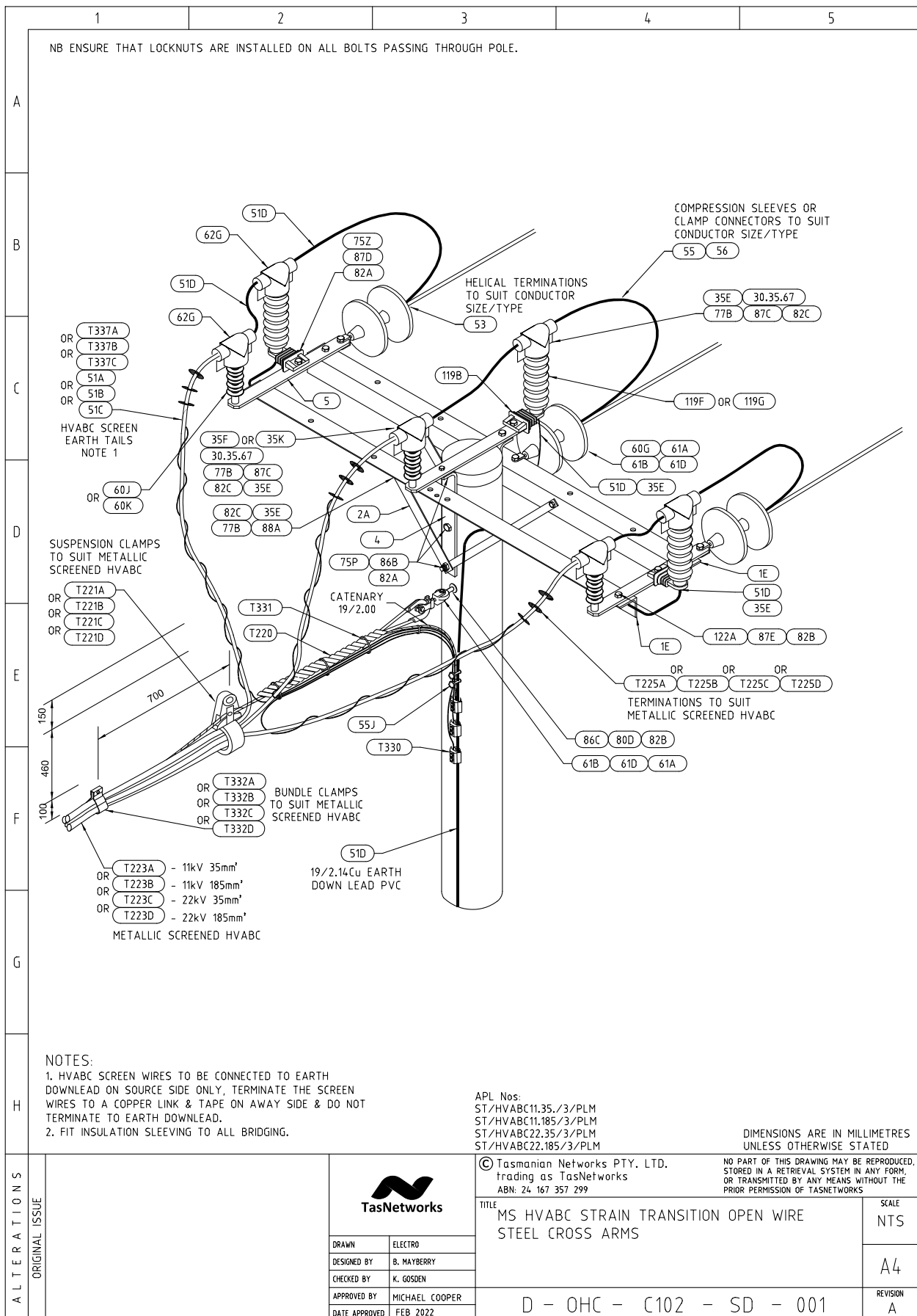


MS HVABC Right Angle Strain Unjointed - Material List


|              |                              | 1   | 2     | 3                            | 4   | 5   |                        |   |                           |               |
|--------------|------------------------------|---|-------|------------------------------|---|---|------------------------|---|---------------------------|---------------|
| A            | RS/HVABC<br>11.35/3/PL<br>M  | S   | T220  | 149110                       | HV ABC Catenary Termination (Dead End) 19/2.00 (TYCO SGG0975)                                       | 2   |                        |   |                           |               |
|              |                              |   | T221A | NEW                          | Metallic Screen HV ABC Suspension Clamp 11kV 35mm2 (TYCO IBSH1050)                                  | 2   |                        |   |                           |               |
|              |                              |   | T223A | NEW                          | Metallic Screen HV ABC Cable 11kV 35mm2 (Olex Product Code UJHA18AA003)                             | 1   |                        |   |                           |               |
|              |                              |   | T332A | NEW                          | Ellis Bundle Clamp for Metallic Screen HVABC Cable 11kV 35mm2 - 'Protect' Trefoil Clamp             | 2   |                        |   |                           |               |
|              |                              |   | 80E   | 37263                        | Bolt Eye M20 x 375  | 2   |                        |   |                           |               |
|              |                              |   | 86C   | 65159                        | Washer ELS M20  | 2   |                        |   |                           |               |
|              |                              |   | 89    | 66803                        | M20 ELS-V Square Washer 75 x 75 x 5.0mm, Diagonal 106.1mm. (Also used on Transformer Installations) | 2   |                        |   |                           |               |
|              |                              |   | 87E   | 65617                        | Washer NS M20   | 2   |                        |   |                           |               |
|              |                              |   | 82B   | 40442                        | Nut Hex M20   | 4   |                        |   |                           |               |
|              |                              |   | 61A   | 322056                       | Ball Clevis & Pin 16mm  | 2   |                        |   |                           |               |
|              |                              |   | 61B   | 322386                       | Socket Termination 16mm   | 2   |                        |   |                           |               |
|              |                              |   | 61D   | 322090                       | W' Clip / Kink Pin  | 2   |                        |   |                           |               |
|              |                              |   | 55J   | 146857                       | Conductor Connection Slit Bolt 'D' Brass Clamp  | 2   |                        |   |                           |               |
|              |                              |   | B     | RS/HVABC<br>11.185/3/P<br>LM | S   | T220  | 149110                 | HV ABC Catenary Termination (Dead End) 19/2.00 (TYCO SGG0975)   | 2                         |               |
|              |                              |   |       |                              |   | T221B   | NEW                    | Metallic Screen HV ABC Suspension Clamp 11kV 185mm2 (TYCO IBSH1075)   | 2                         |               |
|              |                              |   |       |                              |   | T223B   | NEW                    | Metallic Screen HV ABC Cable 11kV 185mm2 (Olex Product Code UJHA25AA003)  | 1                         |               |
|              |                              |   |       |                              |   | T332B   | NEW                    | Ellis Bundle Clamp for Metallic Screen HVABC Cable 11kV 185mm2 - 'Protect' Trefoil Clamp  | 2                         |               |
|              |                              |   |       |                              |   | 80E   | 37263                  | Bolt Eye M20 x 375  | 2                         |               |
|              |                              |   |       |                              |   | 86C   | 65159                  | Washer ELS M20  | 2                         |               |
|              |                              |   |       |                              |   | 89  | 66803                  | M20 ELS-V Square Washer 75 x 75 x 5.0mm, Diagonal 106.1mm. (Also used on Transformer Installations)   | 2                         |               |
| 87E          | 65617                        | Washer NS M20   |       |                              |   | 2   |                        |   |                           |               |
| 82B          | 40442                        | Nut Hex M20   |       |                              |   | 4   |                        |   |                           |               |
| 61A          | 322056                       | Ball Clevis & Pin 16mm  |       |                              |   | 2   |                        |   |                           |               |
| 61B          | 322386                       | Socket Termination 16mm   |       |                              |   | 2   |                        |   |                           |               |
| 61D          | 322090                       | W' Clip / Kink Pin  |       |                              |   | 2   |                        |   |                           |               |
| 55J          | 146857                       | Conductor Connection Slit Bolt 'D' Brass Clamp                                      |       |                              |   | 2   |                        |   |                           |               |
| C            | RS/HVABC<br>22.35/3/PL<br>M  | S   |       |                              |   | T220  | 149110                 | HV ABC Catenary Termination (Dead End) 19/2.00 (TYCO SGG0975)   | 2                         |               |
|              |                              |   |       |                              |   | T221C   | NEW                    | Metallic Screen HV ABC Suspension Clamp 22kV 35mm2 (TYCO IBSH1060)  | 2                         |               |
|              |                              |   |       |                              |   | T223C   | NEW                    | Metallic Screen HV ABC Cable 22kV 35mm2 (Olex Product Code ULHA18AA003)   | 1                         |               |
|              |                              |   |       |                              |   | T332C   | NEW                    | Ellis Bundle Clamp for Metallic Screen HVABC Cable 22kV 35mm2 - 'Protect' Trefoil Clamp   | 2                         |               |
|              |                              |   |       |                              |   | 80E   | 37263                  | Bolt Eye M20 x 375  | 2                         |               |
|              |                              |   |       |                              |   | 86C   | 65159                  | Washer ELS M20  | 2                         |               |
|              |                              |   |       |                              |   | 89  | 66803                  | M20 ELS-V Square Washer 75 x 75 x 5.0mm, Diagonal 106.1mm. (Also used on Transformer Installations)   | 2                         |               |
|              |                              |   | 87E   | 65617                        | Washer NS M20   | 2   |                        |   |                           |               |
|              |                              |   | 82B   | 40442                        | Nut Hex M20   | 4   |                        |   |                           |               |
|              |                              |   | 61A   | 322056                       | Ball Clevis & Pin 16mm  | 2   |                        |   |                           |               |
|              |                              |   | 61B   | 322386                       | Socket Termination 16mm   | 2   |                        |   |                           |               |
|              |                              |   | 61D   | 322090                       | W' Clip / Kink Pin  | 2   |                        |   |                           |               |
|              |                              |   | 55J   | 146857                       | Conductor Connection Slit Bolt 'D' Brass Clamp  | 2   |                        |   |                           |               |
|              |                              |   | D     | RS/HVABC<br>22.185/3/P<br>LM | S   | T220  | 149110                 | HV ABC Catenary Termination (Dead End) 19/2.00 (TYCO SGG0975)   | 2                         |               |
|              |                              |   |       |                              |   | T221D   | NEW                    | Metallic Screen HV ABC Suspension Clamp 22kV 185mm2 (TYCO IBSH1085)   | 2                         |               |
|              |                              |   |       |                              |   | T223D   | NEW                    | Metallic Screen HV ABC Cable 22kV 185mm2 (Olex Product Code ULHA25AA003)  | 1                         |               |
|              |                              |   |       |                              |   | T332D   | NEW                    | Ellis Bundle Clamp for Metallic Screen HVABC Cable 22kV 185mm2 - 'Protect' Trefoil Clamp  | 2                         |               |
|              |                              |   |       |                              |   | 80E   | 37263                  | Bolt Eye M20 x 375  | 2                         |               |
|              |                              |   |       |                              |   | 86C   | 65159                  | Washer ELS M20  | 2                         |               |
|              |                              |   |       |                              |   | 89  | 66803                  | M20 ELS-V Square Washer 75 x 75 x 5.0mm, Diagonal 106.1mm. (Also used on Transformer Installations)   | 2                         |               |
| 87E          | 65617                        | Washer NS M20   |       |                              |   | 2   |                        |   |                           |               |
| 82B          | 40442                        | Nut Hex M20   |       |                              |   | 4   |                        |   |                           |               |
| 61A          | 322056                       | Ball Clevis & Pin 16mm  |       |                              |   | 2   |                        |   |                           |               |
| 61B          | 322386                       | Socket Termination 16mm   |       |                              |   | 2   |                        |   |                           |               |
| 61D          | 322090                       | W' Clip / Kink Pin  |       |                              |   | 2   |                        |   |                           |               |
| 55J          | 146857                       | Conductor Connection Slit Bolt 'D' Brass Clamp                                      |       |                              |   | 2   |                        |   |                           |               |
| E            | RS/HVABC<br>11.185/3/P<br>LM | S   |       |                              |   | T220  | 149110                 | HV ABC Catenary Termination (Dead End) 19/2.00 (TYCO SGG0975)   | 2                         |               |
|              |                              |   |       |                              |   | T221E   | NEW                    | Metallic Screen HV ABC Suspension Clamp 11kV 185mm2 (TYCO IBSH1075)   | 2                         |               |
|              |                              |   |       |                              |   | T223E   | NEW                    | Metallic Screen HV ABC Cable 11kV 185mm2 (Olex Product Code UJHA25AA003)  | 1                         |               |
|              |                              |   |       |                              |   | T332E   | NEW                    | Ellis Bundle Clamp for Metallic Screen HVABC Cable 11kV 185mm2 - 'Protect' Trefoil Clamp  | 2                         |               |
|              |                              |   |       |                              |   | 80E   | 37263                  | Bolt Eye M20 x 375  | 2                         |               |
|              |                              |   |       |                              |   | 86C   | 65159                  | Washer ELS M20  | 2                         |               |
|              |                              |   |       |                              |   | 89  | 66803                  | M20 ELS-V Square Washer 75 x 75 x 5.0mm, Diagonal 106.1mm. (Also used on Transformer Installations)   | 2                         |               |
|              |                              |   | 87E   | 65617                        | Washer NS M20   | 2   |                        |   |                           |               |
|              |                              |   | 82B   | 40442                        | Nut Hex M20   | 4   |                        |   |                           |               |
|              |                              |   | 61A   | 322056                       | Ball Clevis & Pin 16mm  | 2   |                        |   |                           |               |
|              |                              |   | 61B   | 322386                       | Socket Termination 16mm   | 2   |                        |   |                           |               |
|              |                              |   | 61D   | 322090                       | W' Clip / Kink Pin  | 2   |                        |   |                           |               |
|              |                              |   | 55J   | 146857                       | Conductor Connection Slit Bolt 'D' Brass Clamp  | 2   |                        |   |                           |               |
|              |                              |   | F     | RS/HVABC<br>22.185/3/P<br>LM | S   | T220  | 149110                 | HV ABC Catenary Termination (Dead End) 19/2.00 (TYCO SGG0975)   | 2                         |               |
|              |                              |   |       |                              |   | T221F   | NEW                    | Metallic Screen HV ABC Suspension Clamp 22kV 185mm2 (TYCO IBSH1085)   | 2                         |               |
|              |                              |   |       |                              |   | T223F   | NEW                    | Metallic Screen HV ABC Cable 22kV 185mm2 (Olex Product Code ULHA25AA003)  | 1                         |               |
|              |                              |   |       |                              |   | T332F   | NEW                    | Ellis Bundle Clamp for Metallic Screen HVABC Cable 22kV 185mm2 - 'Protect' Trefoil Clamp  | 2                         |               |
|              |                              |   |       |                              |   | 80E   | 37263                  | Bolt Eye M20 x 375  | 2                         |               |
|              |                              |   |       |                              |   | 86C   | 65159                  | Washer ELS M20  | 2                         |               |
|              |                              |   |       |                              |   | 89  | 66803                  | M20 ELS-V Square Washer 75 x 75 x 5.0mm, Diagonal 106.1mm. (Also used on Transformer Installations)   | 2                         |               |
| 87E          | 65617                        | Washer NS M20   |       |                              |   | 2   |                        |   |                           |               |
| 82B          | 40442                        | Nut Hex M20   |       |                              |   | 4   |                        |   |                           |               |
| 61A          | 322056                       | Ball Clevis & Pin 16mm  |       |                              |   | 2   |                        |   |                           |               |
| 61B          | 322386                       | Socket Termination 16mm   |       |                              |   | 2   |                        |   |                           |               |
| 61D          | 322090                       | W' Clip / Kink Pin  |       |                              |   | 2   |                        |   |                           |               |
| 55J          | 146857                       | Conductor Connection Slit Bolt 'D' Brass Clamp                                      |       |                              |   | 2   |                        |   |                           |               |
| G            | RS/HVABC<br>11.185/3/P<br>LM | S   |       |                              |   | T220  | 149110                 | HV ABC Catenary Termination (Dead End) 19/2.00 (TYCO SGG0975)   | 2                         |               |
|              |                              |   |       |                              |   | T221G   | NEW                    | Metallic Screen HV ABC Suspension Clamp 11kV 185mm2 (TYCO IBSH1075)   | 2                         |               |
|              |                              |   |       |                              |   | T223G   | NEW                    | Metallic Screen HV ABC Cable 11kV 185mm2 (Olex Product Code UJHA25AA003)  | 1                         |               |
|              |                              |   |       |                              |   | T332G   | NEW                    | Ellis Bundle Clamp for Metallic Screen HVABC Cable 11kV 185mm2 - 'Protect' Trefoil Clamp  | 2                         |               |
|              |                              |   |       |                              |   | 80E   | 37263                  | Bolt Eye M20 x 375  | 2                         |               |
|              |                              |   |       |                              |   | 86C   | 65159                  | Washer ELS M20  | 2                         |               |
|              |                              |   |       |                              |   | 89  | 66803                  | M20 ELS-V Square Washer 75 x 75 x 5.0mm, Diagonal 106.1mm. (Also used on Transformer Installations)   | 2                         |               |
|              |                              |   | 87E   | 65617                        | Washer NS M20   | 2   |                        |   |                           |               |
|              |                              |   | 82B   | 40442                        | Nut Hex M20   | 4   |                        |   |                           |               |
|              |                              |   | 61A   | 322056                       | Ball Clevis & Pin 16mm  | 2   |                        |   |                           |               |
|              |                              |   | 61B   | 322386                       | Socket Termination 16mm   | 2   |                        |   |                           |               |
|              |                              |   | 61D   | 322090                       | W' Clip / Kink Pin  | 2   |                        |   |                           |               |
|              |                              |   | 55J   | 146857                       | Conductor Connection Slit Bolt 'D' Brass Clamp  | 2   |                        |   |                           |               |
|              |                              |   | H     | RS/HVABC<br>22.185/3/P<br>LM | S   | T220  | 149110                 | HV ABC Catenary Termination (Dead End) 19/2.00 (TYCO SGG0975)   | 2                         |               |
|              |                              |   |       |                              |   | T221H   | NEW                    | Metallic Screen HV ABC Suspension Clamp 22kV 185mm2 (TYCO IBSH1085)   | 2                         |               |
|              |                              |   |       |                              |   | T223H   | NEW                    | Metallic Screen HV ABC Cable 22kV 185mm2 (Olex Product Code ULHA25AA003)  | 1                         |               |
|              |                              |   |       |                              |   | T332H   | NEW                    | Ellis Bundle Clamp for Metallic Screen HVABC Cable 22kV 185mm2 - 'Protect' Trefoil Clamp  | 2                         |               |
|              |                              |   |       |                              |   | 80E   | 37263                  | Bolt Eye M20 x 375  | 2                         |               |
|              |                              |   |       |                              |   | 86C   | 65159                  | Washer ELS M20  | 2                         |               |
|              |                              |   |       |                              |   | 89  | 66803                  | M20 ELS-V Square Washer 75 x 75 x 5.0mm, Diagonal 106.1mm. (Also used on Transformer Installations)   | 2                         |               |
| 87E          | 65617                        | Washer NS M20   |       |                              |   | 2   |                        |   |                           |               |
| 82B          | 40442                        | Nut Hex M20   |       |                              |   | 4   |                        |   |                           |               |
| 61A          | 322056                       | Ball Clevis & Pin 16mm  |       |                              |   | 2   |                        |   |                           |               |
| 61B          | 322386                       | Socket Termination 16mm   |       |                              |   | 2   |                        |   |                           |               |
| 61D          | 322090                       | W' Clip / Kink Pin  |       |                              |   | 2   |                        |   |                           |               |
| 55J          | 146857                       | Conductor Connection Slit Bolt 'D' Brass Clamp                                      |       |                              |   | 2   |                        |   |                           |               |
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|              |                              |   |       |                              |   | TITLE<br>MS HVABC RIGHT ANGLE STRAIN UNJOINTED<br>MATERIAL LIST                 |                        |   | SCALE<br>NTS              |               |
|              |                              | DRAWN<br>ELECTRO  |       |                              |   | DESIGNED BY<br>B.MAYBERRY   | CHECKED BY<br>K.GOSDEN | APPROVED BY<br>MICHAEL COOPER   | DATE APPROVED<br>FEB 2022 | REVISION<br>A |
|              |                              | D - OHC - C099 - SD - 002   |       |                              |   |   |                        |   |                           |               |

DIMENSIONS ARE IN MILLIMETRES  
UNLESS OTHERWISE STATED


### 3.4 MS HVABC Strain Transition Open Wire Steel Crossarms




MS HVABC Strain Transition Open Wire Steel Crossarms - Material List 1

|  |               | 1   | 2                         | 3   | 4   | 5  |                    |              |
|--|---------------|---|---------------------------|---|---|--|--------------------|--------------|
| A  | B             | S   | 4                         | 323311  | L' Bracket 75 x 12 x 660, Flat Bar, Mark 11                       | 2  |                    |              |
|  |               |   | 5                         | 323310  | Strain Double Pin Plate 65 x 12 x 678 Flat Bar, Mark 10           | 3  |                    |              |
|  |               |   | 303567                    | 303567  | Termination Bar for Surge Arresters & Stand Off insulator         | 6  |                    |              |
|  |               |   | 119B                      | 225797  | Surge Diverter Base Mount   | 3  |                    |              |
|  |               |   | 119F                      | 225772  | Surge Diverter 10kA - 11kV  | 3  |                    |              |
|  |               |   | 122A                      | 33744   | Bolt Tower M20 x 45 - Thread Length 24mm                          | 6  |                    |              |
|  |               |   | 1E                        | 323305  | Crossarm 100 x 100 x 8, Galvanised Steel Angle, 2210 Long, Mark 5 | 2  |                    |              |
|  |               |   | 2A                        | 322214  | Crossarm Strap 40 x 5 x 700, Flat Bar, Mark 14                    | 4  |                    |              |
|  |               |   | C                         | 35E   | 141363  | Lug Crimp Cu M12 Hole 70mm2 Cable  | 16                 |              |
|  |               |   |                           | 35F   | 152476  | Lug Bi-Metal Compression Tinned M12 Hole 35mm2 Cable                                     | 3                  |              |
|  |               |   |                           | 51A   | 103208  | Conductor Cu Insulated Hard Drawn 1c 16mm2, 7/1.70                                       | 12                 |              |
|  |               |   |                           | 51D   | 103212  | Conductor Cu Insulated Hard Drawn 1c 70mm2, 19/2.14                                      | 24                 |              |
|  |               |   |                           | 55J   | 146857  | Conductor Connection Slit Bolt 'D' Brass Clamp   | 2                  |              |
|  |               |   |                           | 60G   | 321260  | Insulator Disc Porcelain 16mm 70Kn 146mm   | 6                  |              |
|  |               |   |                           | 60J   | 320452  | Insulator, Synthetic 11kV Stand Off  | 3                  |              |
|  |               |   |                           | 61A   | 322056  | Ball Clevis & Pin 16mm   | 4                  |              |
|  |               |   |                           | 61B   | 322386  | Socket Termination 16mm  | 4                  |              |
|  |               |   |                           | D   | 61D   | 322090   | W' Clip / Kink Pin | 10           |
|  |               |   | 62G                       |   | 225771  | Surge Diverter Cover Moulded with Nylon Bolts M5 x 12mm                                  | 6                  |              |
|  |               |   | 75P                       |   | 32288   | Bolt Hex M16 X 375 - Thread Length 75mm  | 3                  |              |
|  |               |   | 75Z                       |   | 32261   | Bolt Hex M16 x 45 - Thread Length 24mm   | 3                  |              |
|  |               |   | 77B                       |   | 33771   | Bolt Tower M12 x 35 - Thread Length 20mm   | 16                 |              |
|  |               |   | 80D                       |   | 37261   | Bolt Eye M20 x 350   | 1                  |              |
|  |               |   | 82A                       |   | 40441   | Nut Hex M16  | 9                  |              |
|  |               |   | 82B                       |   | 40442   | Nut Hex M20  | 8                  |              |
|  |               |   | 82C                       |   | 40440   | Nut Hex M12  | 20                 |              |
|  |               |   | E                         |   | 86C   | 65159  | Washer ELS M20     | 2            |
|  |               |   |                           | 87C   | 65615   | Washer NS M12  | 12                 |              |
|  |               |   |                           | 87D   | 65616   | Washer NS M16  | 3                  |              |
|  |               |   |                           | 87E   | 65617   | Washer NS M20  | 6                  |              |
|  |               |   |                           | 88A   | 66412   | Washer Tower M12   | 4                  |              |
|  |               |   |                           | T220  | 149110  | HV ABC Catenary Termination (Dead End) 19/2.00 (TYCO SGG0975)                            | 1                  |              |
|  |               |   |                           | T221A   | NEW   | Metallic Screen HV ABC Suspension Clamp 11kV 35mm2 (TYCO IBSH1050)                       | 1                  |              |
|  |               |   |                           | T223A   | NEW   | Metallic Screen HV ABC Cable 11kV 35mm2 (Olex Product Code UJHA18AA003)                  | 1                  |              |
|  |               |   |                           | T225A   | NEW   | Metallic Screen HV ABC Cable Termination 11kV 35mm2, 3x1C, 19/2.00-10mm Dia Gal Catenary | 3                  |              |
|  |               |   |                           | T330  | 144959  | Conductor Clamp Cu Par/Groove 16-95mm2 (TE Connectivity HEL-3030 Prod Code 831160-000)   | 3                  |              |
|  |               |   | F                         | T331  | NEW   | Nylon Cable Tie UV Stabilised, Fixing 19/2.14 CU PVC S/Arrester Earth Lead to FRP X-Arm  | 5                  |              |
| T332A  | NEW           | Ellis Bundle Clamp for Metallic Screen HVABC Cable 11kV 35mm2 - 'Protect' Trefoil Clamp |                           | 1   |   |  |                    |              |
| T337A  | 141410        | Ferrule - Copper, Cable Links for MS HVABC Cable 11kV 35mm2 Screen Wires - CSA 13.62mm2 |                           | 3   |   |  |                    |              |
| DIMENSIONS ARE IN MILLIMETRES<br>UNLESS OTHERWISE STATED |               |   |                           |   |   |  |                    |              |
| G  | H             | ORIGINAL ISSUE  |                           | <br><b>TasNetworks</b>   |   | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299          |                    |              |
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|  |               |   |                           | TITTLE<br>MS HVABC STRAIN TRANSITION OPEN WIRE<br>STEEL CROSS ARMS<br>MATERIAL LIST - 35mm2 11KV ABC  |   |  |                    | A4           |
|  |               |   | D - OHC - C102 - SD - 002 |   |   |  | REVISION<br>A      |              |
| H  | ALTERNATIONS  | DRAWN   | ELECTRO                   |   |   |  |                    |              |
|  |               | DESIGNED BY   | B. MAYBERRY               |   |   |  |                    |              |
|  |               | CHECKED BY  | K. GOSDEN                 |   |   |  |                    |              |
|  |               | APPROVED BY   | MICHAEL COOPER            |   |   |  |                    |              |
|  | DATE APPROVED | FEB 2022  |                           |   |   |  |                    |              |


MS HVABC Strain Transition Open Wire Steel Crossarms - Material List 2

|              |                | 1   | 2           | 3  | 4 | 5   |
|--------------|----------------|---|-------------|--|---|---|
| A            |                |   |             |  |   |   |
|              |                |   |             |  |   |   |
| B            |                |   |             |  |   |   |
|              |                |   |             |  |   |   |
| C            |                |   |             |  |   |   |
|              |                |   |             |  |   |   |
| D            |                |   |             |  |   |   |
|              |                |   |             |  |   |   |
| E            |                |   |             |  |   |   |
|              |                |   |             |  |   |   |
| F            |                |   |             |  |   |   |
|              |                |   |             |  |   |   |
| G            |                |   |             |  |   |   |
|              |                |   |             |  |   |   |
| H            |                |   |             |  |   |   |
|              |                |   |             |  |   |   |
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|              |                |   |             | TITLE<br>MS HVABC STRAIN TRANSITION OPEN WIRE<br>STEEL CROSS ARMS<br>MATERIAL LIST - 185mm2 11KV ABC |   |   |
|              |                | DRAWN   | ELECTRO     | APPROVED BY MICHAEL COOPER   |   | REVISION<br>A   |
|              |                | DESIGNED BY   | B. MAYBERRY | DATE APPROVED FEB 2022   |   |   |
|              |                | CHECKED BY  | K. GOSDEN   | D - OHC - C102 - SD - 003  |   |   |

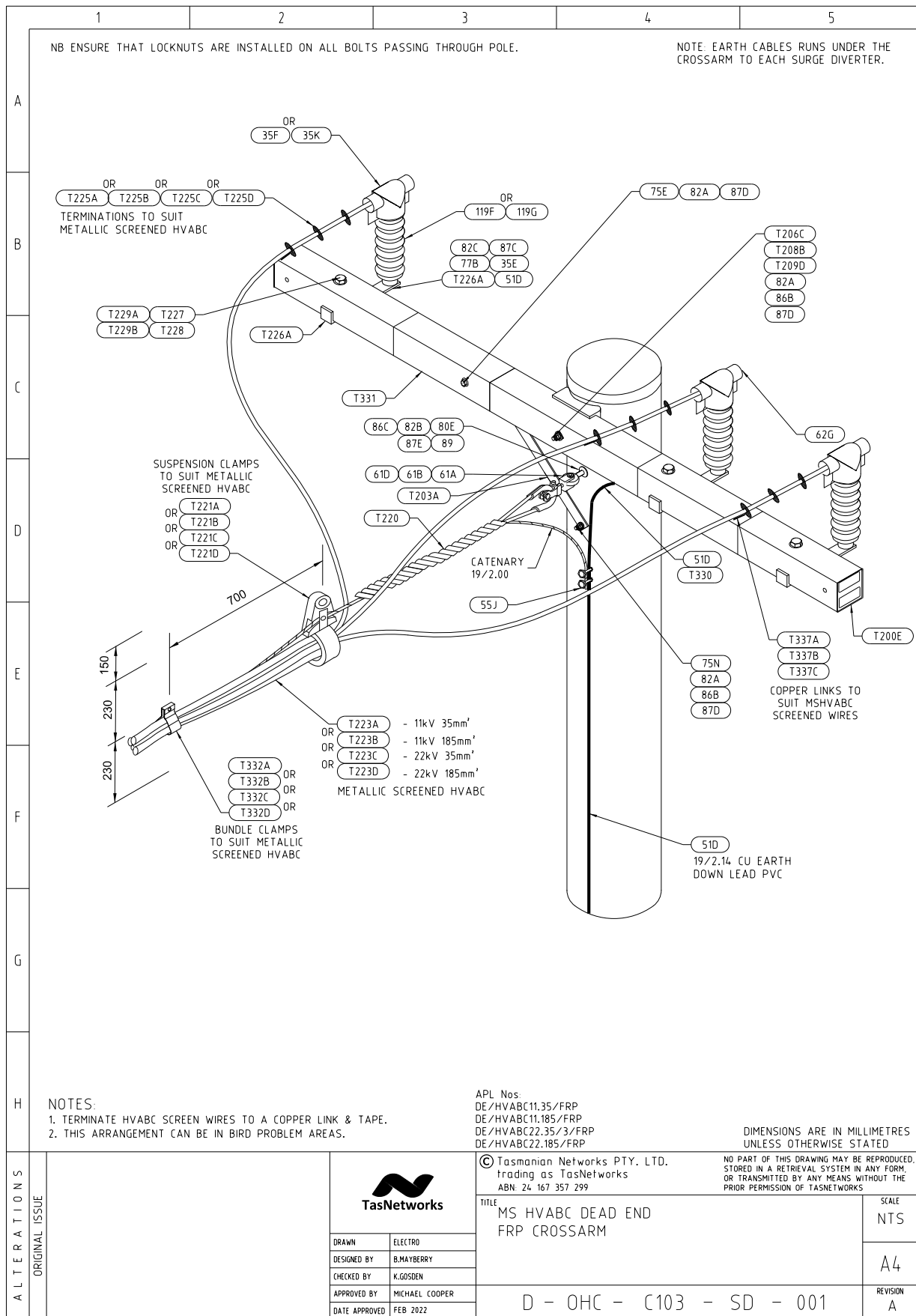
MS HVABC Strain Transition Open Wire Steel Crossarms - Material List 3

|              |                | 1   | 2       | 3   | 4 | 5   |
|--------------|----------------|---|---------|---|---|---|
| A            |                |   |         |   |   |   |
|              |                |   |         |   |   |   |
| B            |                |   |         |   |   |   |
|              |                |   |         |   |   |   |
| C            |                |   |         |   |   |   |
|              |                |   |         |   |   |   |
| D            |                |   |         |   |   |   |
|              |                |   |         |   |   |   |
| E            |                |   |         |   |   |   |
|              |                |   |         |   |   |   |
| F            |                |   |         |   |   |   |
|              |                |   |         |   |   |   |
| G            |                |   |         |   |   |   |
|              |                |   |         |   |   |   |
| H            |                |   |         |   |   |   |
|              |                |   |         |   |   |   |
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|              |                |   |         | TITLE<br>MS HVABC STRAIN TRANSITION OPEN WIRE<br>STEEL CROSS ARMS<br>MATERIAL LIST - 35mm2 22KV ABC |   |   |
|              |                | DRAWN   | ELECTRO | APPROVED BY MICHAEL COOPER<br>DATE APPROVED FEB 2022  |   | REVISION<br>A   |
|              |                | D - OHC - C102 - SD - 004   |         |   |   |   |

MS HVABC Strain Transition Open Wire Steel Crossarms - Material List 4


| 1                     |  | 2   |  | 3  |  | 4   |  | 5  |  |
|-----------------------|--|---|--|--|--|---|--|--|--|
| A                     |  |   |  |  |  |   |  |  |  |
|                       |  |   |  |  |  |   |  |  |  |
| B                     |  |   |  |  |  |   |  |  |  |
|                       |  |   |  |  |  |   |  |  |  |
| C                     |  |   |  |  |  |   |  |  |  |
|                       |  |   |  |  |  |   |  |  |  |
| D                     |  |   |  |  |  |   |  |  |  |
|                       |  |   |  |  |  |   |  |  |  |
| E                     |  |   |  |  |  |   |  |  |  |
|                       |  |   |  |  |  |   |  |  |  |
| F                     |  |   |  |  |  |   |  |  |  |
|                       |  |   |  |  |  |   |  |  |  |
| G                     |  |   |  |  |  |   |  |  |  |
|                       |  |   |  |  |  |   |  |  |  |
| H                     |  |   |  |  |  |   |  |  |  |
|                       |  |   |  |  |  |   |  |  |  |
| A L T E R A T I O N S |  |   |  |  |  |   |  |  |  |
|                       |  |   |  |  |  |   |  |  |  |
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|                       |  | DRAWN: ELECTRO<br>DESIGNED BY: B. MAYBERRY<br>CHECKED BY: K. GOSDEN<br>APPROVED BY: MICHAEL COOPER<br>DATE APPROVED: FEB 2022 |  | TITLE<br>MS HVABC STRAIN TRANSITION OPEN WIRE<br>STEEL CROSS ARMS<br>MATERIAL LIST - 185mm2 22KV ABC |  | SCALE<br>NTS<br>A4  |  | REVISION<br>A  |  |
|                       |  |   |  | D - OHC - C102 - SD - 005  |  |   |  |  |  |

### 3.5 MS HVABC Dead End FRP Crossarm







MS HVABC Dead End FRP Crossarm - Material List 1

|                                       |                         | 1 | 2   | 3   | 4   | 5                         |  |   |  |
|---------------------------------------|-------------------------|---|---|---|---|---------------------------|--|---|--|
| A<br><br>B<br><br>C<br><br>D<br><br>E | DE/HVABC<br>11.35/3/FRP | S | 89  | 66803   | M20 ELS-V Square Washer 75 x 75 x 5.0mm, Diagonal 106.1mm. (Also used on Transformer Installations) | 1                         |  |   |  |
|                                       |                         |   | 119F  | 225772  | Surge Diverter 10kA - 11kV  | 3                         |  |   |  |
|                                       |                         |   | 35E   | 141363  | Lug Crimp Cu M12 Hole 70mm2 Cable   | 4                         |  |   |  |
|                                       |                         |   | 35F   | 152476  | Lug Bi-Metal Compression Tinned M12 Hole 35mm2 Cable  | 3                         |  |   |  |
|                                       |                         |   | 51D   | 103212  | Conductor Cu Insulated Hard Drawn 1c 70mm2, 19/2.14   | 15                        |  |   |  |
|                                       |                         |   | 55J   | 146857  | Conductor Connection Slit Bolt 'D' Brass Clamp  | 2                         |  |   |  |
|                                       |                         |   | 61A   | 322056  | Ball Clevis & Pin 16mm  | 1                         |  |   |  |
|                                       |                         |   | 61B   | 322386  | Socket Termination 16mm   | 1                         |  |   |  |
|                                       |                         |   | 61D   | 322090  | W' Clip / Kink Pin  | 1                         |  |   |  |
|                                       |                         |   | 62G   | 225771  | Surge Diverter Cover Moulded with Nylon Bolts M5 x 12mm   | 3                         |  |   |  |
|                                       |                         |   | 75E   | 32279   | Bolt Hex M16 X 180 - Thread Length 57mm   | 1                         |  |   |  |
|                                       |                         |   | 75N   | 32287   | Bolt Hex M16 X 350 - Thread Length 57mm   | 1                         |  |   |  |
|                                       |                         |   | 77B   | 33771   | Bolt Tower M12 x 35 - Thread Length 20mm  | 3                         |  |   |  |
|                                       |                         |   | 80E   | 37263   | Bolt Eye M20 x 375  | 1                         |  |   |  |
|                                       |                         |   | 82A   | 40441   | Nut Hex M16   | 5                         |  |   |  |
|                                       |                         |   | 82B   | 40442   | Nut Hex M20   | 2                         |  |   |  |
|                                       |                         |   | 82C   | 40440   | Nut Hex M12   | 3                         |  |   |  |
|                                       |                         |   | 86B   | 65158   | Washer ELS M16  | 2                         |  |   |  |
|                                       |                         |   | 86C   | 65159   | Washer ELS M20  | 1                         |  |   |  |
|                                       |                         |   | 87C   | 65615   | Washer NS M12   | 3                         |  |   |  |
|                                       |                         |   | 87D   | 65616   | Washer NS M16   | 4                         |  |   |  |
|                                       |                         |   | 87E   | 65617   | Washer NS M20   | 1                         |  |   |  |
|                                       |                         |   | T200E   | 323223  | CF XARM - 2840x125x125 - CA-125 SHS 2.834m ARM  | 1                         |  |   |  |
|                                       |                         |   | T203A   | 323316  | XARM BRACE - 716x40x8   | 1                         |  |   |  |
|                                       |                         |   | T206C   | 325639  | M16 EYE BOLT 500 - Thread Length 75mm   | 1                         |  |   |  |
|                                       |                         |   | T208B   | 323307  | GAIN BLOCK 125mm  | 1                         |  |   |  |
|                                       |                         |   | T209D   | 66807   | M16 ELS-V Square Washer 50 x 50 x 4.0mm, Diagonal 70.7mm.   | 1                         |  |   |  |
|                                       |                         |   | T220  | 149110  | HV ABC Catenary Termination (Dead End) 19/2.00 (TYCO SGG0975)                                       | 1                         |  |   |  |
|                                       |                         |   | T221A   | NEW   | Metallic Screen HV ABC Suspension Clamp 11kV 35mm2 (TYCO IBSH1050)                                  | 1                         |  |   |  |
|                                       |                         |   | T223A   | NEW   | Metallic Screen HV ABC Cable 11kV 35mm2 (Olex Product Code UJHA18AA003)                             | 1                         |  |   |  |
|                                       |                         |   | T225A   | NEW   | Metallic Screen HV ABC Cable Termination 11kV 35mm2, 3x1C, 19/2.00-10mm Dia Gal Catenary            | 3                         |  |   |  |
|                                       |                         |   | T226A   | 323368  | Bracket_stand off mounting FRP crossarm EDO   | 3                         |  |   |  |
|                                       |                         |   | T227  | 32334   | Bolt Hex M24 X 180 - Thread Length 75mm   | 3                         |  |   |  |
|                                       |                         |   | T228  | 40448   | Nut Hex M24 (36mm across Flats, 21mm Thick)   | 3                         |  |   |  |
|                                       |                         |   | T229A   | NEW   | M24 Washer NS (ID-26mm, OD-48mm, Thickness 4.0mm)   | 6                         |  |   |  |
|                                       |                         |   | T330  | 144959  | Conductor Clamp Cu Par/Groove 16-95mm2 (TE Connectivity HEL-3030 Prod Code 831160-000)              | 1                         |  |   |  |
|                                       |                         |   | T331  | NEW   | Nylon Cable Tie UV Stabilised, Fixing 19/2.14 CU PVC S/Arrester Earth Lead to FRP X-Arm             | 4                         |  |   |  |
|                                       |                         |   | T332A   | NEW   | Ellis Bundle Clamp for Metallic Screen HVABC Cable 11kV 35mm2 - 'Protect' Trefoil Clamp             | 1                         |  |   |  |
|                                       |                         |   | T337A   | 141410  | Ferrule - Copper, Cable Links for MS HVABC Cable 11kV 35mm2 Screen Wires - CSA 13.62mm2             | 3                         |  |   |  |
|                                       |                         |   | F   |   |   |                           |  |   |  |
|                                       |                         |   | G   |   |   |                           |  |   |  |
|                                       |                         |   | H   |   |   |                           |  |   |  |
|                                       |                         |   | A<br>L<br>T<br>E<br>R<br>A<br>T<br>I<br>O<br>N<br>S | O<br>R<br>I<br>G<br>I<br>N<br>A<br>L<br>I<br>S<br>S<br>U<br>E |                  |                           |  | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299   |  |
|                                       |                         |   |   |   | DRAWN: ELECTRO  |                           |  | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNWORKS |  |
|                                       |                         |   |   |   | DESIGNED BY: B.MAYBERRY   |                           |  |   |  |
|                                       |                         |   |   |   | CHECKED BY: K.GOSDEN  |                           |  | TITLE<br>MS HVABC DEAD END<br>FRP CROSSARM<br>MATERIAL LIST - 35mm2 11KV ABC  |  |
|                                       |                         |   | APPROVED BY: MICHAEL COOPER                         |   |   |                           |  |   |  |
|                                       |                         |   | DATE APPROVED: FEB 2022                             |   |   | D - OHC - C103 - SD - 002 |  | SCALE<br>NTS<br><br>A4<br><br>REVISION<br>A   |  |

MS HVABC Dead End FRP Crossarm - Material List 2


|              |                | 1   | 2 | 3   | 4 | 5   |
|--------------|----------------|---|---|---|---|---|
| A            |                |   |   |   |   |   |
|              |                |   |   |   |   |   |
| B            |                |   |   |   |   |   |
|              |                |   |   |   |   |   |
| C            |                |   |   |   |   |   |
|              |                |   |   |   |   |   |
| D            |                |   |   |   |   |   |
|              |                |   |   |   |   |   |
| E            |                |   |   |   |   |   |
|              |                |   |   |   |   |   |
| F            |                |   |   |   |   |   |
|              |                |   |   |   |   |   |
| G            |                |   |   |   |   |   |
|              |                |   |   |   |   |   |
| H            |                |   |   |   |   |   |
|              |                |   |   |   |   |   |
| ALTERNATIONS | ORIGINAL ISSUE |   |   |   |   |   |
|              |                |   |   |   |   |   |
|              |                |    |   | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299 |   | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNETWORKS |
|              |                | DRAWN: ELECTRO<br>DESIGNED BY: B.MAYBERRY<br>CHECKED BY: K.GOSDEN<br>APPROVED BY: MICHAEL COOPER<br>DATE APPROVED: FEB 2022 |   | TITLE<br>MS HVABC DEAD END<br>FRP CROSSARM<br>MATERIAL LIST - 185mm2 11KV ABC   |   | SCALE<br>NTS<br><br>A4<br><br>REVISION<br>A   |
|              |                |   |   | D - OHC - C103 - SD - 003   |   |   |

MS HVABC Dead End FRP Crossarm - Material List 3

|                |  | 1 | 2   | 3 | 4   | 5 |
|----------------|--|---|---|---|---|---|
| A              |  |   |   |   |   |   |
|                |  |   |   |   |   |   |
| B              |  |   |   |   |   |   |
|                |  |   |   |   |   |   |
| C              |  |   |   |   |   |   |
|                |  |   |   |   |   |   |
| D              |  |   |   |   |   |   |
|                |  |   |   |   |   |   |
| E              |  |   |   |   |   |   |
|                |  |   |   |   |   |   |
| F              |  |   |   |   |   |   |
|                |  |   |   |   |   |   |
| G              |  |   |   |   |   |   |
|                |  |   |   |   |   |   |
| H              |  |   |   |   |   |   |
|                |  |   |   |   |   |   |
| ALTERNATIONS   |  |   |   |   |   |   |
|                |  |   |   |   |   |   |
| ORIGINAL ISSUE |  |   |    |   | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299   |   |
|                |  |   | DRAWN: ELECTRO<br>DESIGNED BY: B.MAYBERRY<br>CHECKED BY: K.GOSDEN<br>APPROVED BY: MICHAEL COOPER<br>DATE APPROVED: FEB 2022 |   | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNETWORKS |   |
|                |  |   | TITLE<br>MS HVABC DEAD END<br>FRP CROSSARM<br>MATERIAL LIST - 35mm2 22KV ABC  |   | SCALE<br>NTS<br>A4  |   |
|                |  |   | D - OHC - C103 - SD - 004   |   | REVISION<br>A   |   |

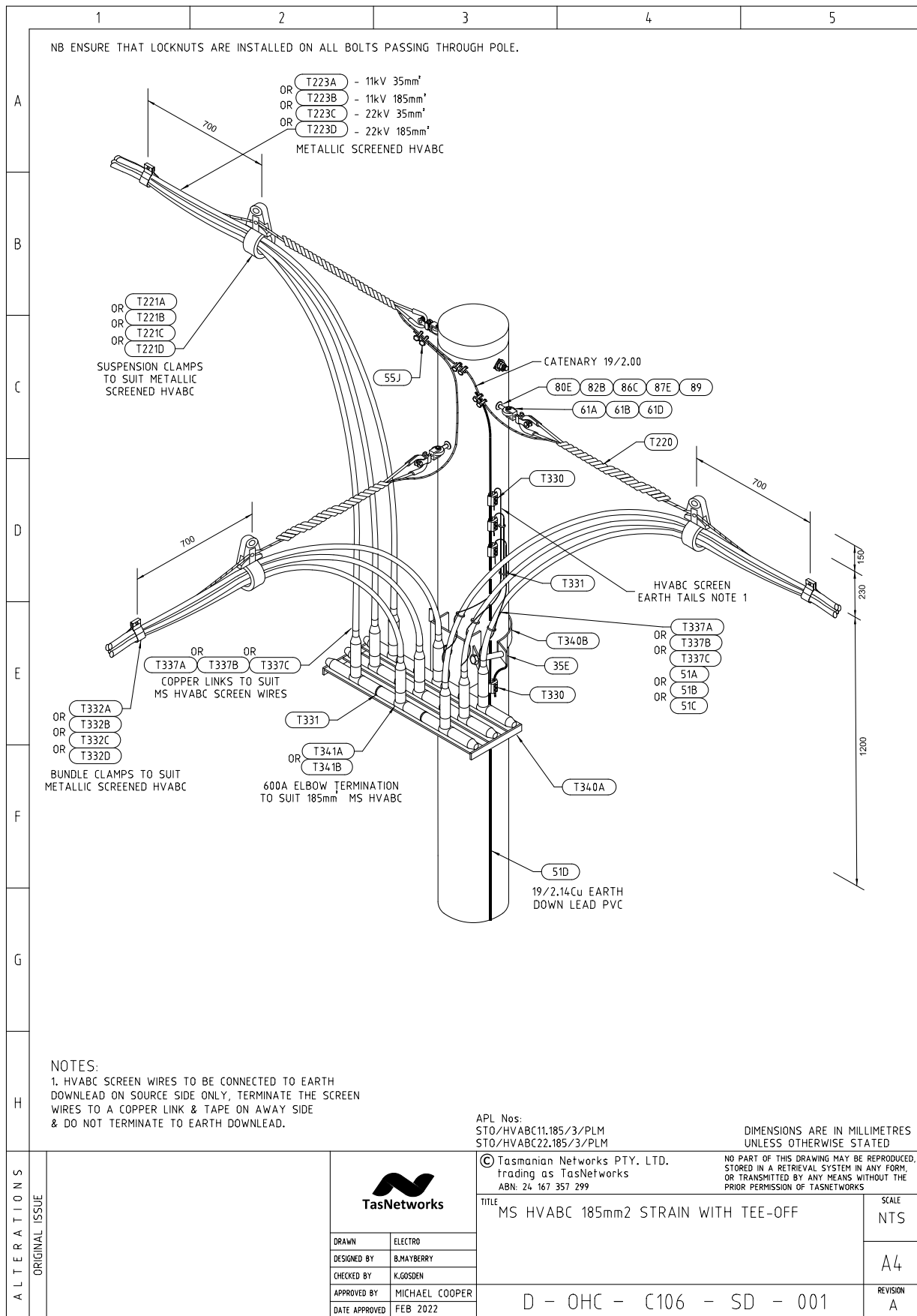
DIMENSIONS ARE IN MILLIMETRES  
UNLESS OTHERWISE STATED

MS HVABC Dead End FRP Crossarm - Material List 4


|   | 1   | 2  | 3                      | 4  | 5       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|---|---|--|------------------------|--|---------|-------------|------------|------------|------------------------|-------------|----------------|---------------|----------|---|---|---|-------------|--|------|--------|----------------------------|---|---|--|-----|--------|-----------------------------------|---|--|--|-----|--------|---|---|--|--|-----|--------|---|----|--|--|-----|--------|--|---|--|--|-----|--------|-------------------------|---|--|--|-----|--------|---------------------|---|--|--|-----|--------|---|---|--|--|-----|-------|---|---|--|--|-----|-------|---|---|--|--|-----|-------|--|---|--|--|-----|-------|--------------------|---|--|--|-----|-------|-------------|---|--|--|-----|-------|-------------|---|--|--|-----|-------|-------------|---|--|--|-----|-------|----------------|---|--|--|-----|-------|----------------|---|--|--|-----|-------|---------------|---|--|--|-----|-------|---------------|---|--|--|-----|-------|---------------|---|--|--|-------|--------|--|---|--|--|-------|--------|-----------------------|---|--|--|-------|-----|---|---|--|--|-------|--------|---------------------------------------|---|--|--|-------|--------|------------------|---|--|--|-------|-------|---|---|--|--|------|--------|---|---|--|--|-------|-----|---|---|--|--|-------|-----|--|---|--|--|-------|-----|--|---|--|--|-------|-----|--|---|--|--|------|-------|---|---|--|--|------|-------|---|---|--|--|-------|-----|---|---|--|--|------|-----|--|---|--|--|------|-----|---|---|--|--|-------|-----|--|---|--|--|-------|--------|---|---|
| A   |   |  |                        |  |         |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
| B   |   |  |                        |  |         |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
| C   | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Store Type</th> <th style="width: 5%;">Item Ref</th> <th style="width: 10%;">Stock Item</th> <th style="width: 55%;">Stock Item Description</th> <th style="width: 15%;">Quantity</th> </tr> </thead> <tbody> <tr><td>DE/HVABC</td><td>S</td><td>89</td><td>66803</td><td>M20 ELS-V Square Washer 75 x 75 x 5.0mm, Diagonal 106.1mm. (Also used on Transformer Installations)</td><td>1</td></tr> <tr><td>22.185/3/FR</td><td></td><td>119G</td><td>225773</td><td>Surge Diverter 10kA - 22kV</td><td>3</td></tr> <tr><td>P</td><td></td><td>35E</td><td>141363</td><td>Lug Crimp Cu M12 Hole 70mm2 Cable</td><td>4</td></tr> <tr><td></td><td></td><td>35K</td><td>152482</td><td>Lug Bi-Metal Compression Tinned M12 Hole 185mm2 Cable</td><td>3</td></tr> <tr><td></td><td></td><td>51D</td><td>103212</td><td>Conductor Cu Insulated Hard Drawn 1c 70mm2, 19/2.14</td><td>15</td></tr> <tr><td></td><td></td><td>55J</td><td>146857</td><td>Conductor Connection Slit Bolt 'D' Brass Clamp</td><td>2</td></tr> <tr><td></td><td></td><td>61B</td><td>322386</td><td>Socket Termination 16mm</td><td>1</td></tr> <tr><td></td><td></td><td>61D</td><td>322090</td><td>'W' Clip / Kink Pin</td><td>1</td></tr> <tr><td></td><td></td><td>62G</td><td>225771</td><td>Surge Diverter Cover Moulded with Nylon Bolts M5 x 12mm</td><td>3</td></tr> <tr><td></td><td></td><td>75E</td><td>32279</td><td>Bolt Hex M16 X 180 - Thread Length 57mm</td><td>1</td></tr> <tr><td></td><td></td><td>75N</td><td>32287</td><td>Bolt Hex M16 X 350 - Thread Length 57mm</td><td>1</td></tr> <tr><td></td><td></td><td>77B</td><td>33771</td><td>Bolt Tower M12 x 35 - Thread Length 20mm</td><td>3</td></tr> <tr><td></td><td></td><td>80E</td><td>37263</td><td>Bolt Eye M20 x 375</td><td>1</td></tr> <tr><td></td><td></td><td>82A</td><td>40441</td><td>Nut Hex M16</td><td>5</td></tr> <tr><td></td><td></td><td>82B</td><td>40442</td><td>Nut Hex M20</td><td>2</td></tr> <tr><td></td><td></td><td>82C</td><td>40440</td><td>Nut Hex M12</td><td>3</td></tr> <tr><td></td><td></td><td>86B</td><td>65158</td><td>Washer ELS M16</td><td>2</td></tr> <tr><td></td><td></td><td>86C</td><td>65159</td><td>Washer ELS M20</td><td>1</td></tr> <tr><td></td><td></td><td>87C</td><td>65615</td><td>Washer NS M12</td><td>3</td></tr> <tr><td></td><td></td><td>87D</td><td>65616</td><td>Washer NS M16</td><td>4</td></tr> <tr><td></td><td></td><td>87E</td><td>65617</td><td>Washer NS M20</td><td>1</td></tr> <tr><td></td><td></td><td>T200E</td><td>323223</td><td>CF XARM - 2840x125x125 - CA-125 SHS 2.834m ARM</td><td>1</td></tr> <tr><td></td><td></td><td>T203A</td><td>323316</td><td>XARM BRACE - 716x40x8</td><td>1</td></tr> <tr><td></td><td></td><td>T205A</td><td>NEW</td><td>M16 Spring Washer - Galvanised Spring Steel DIN127B (OD: 27mm, ID: 16.2 - 17.0mm, Thickness: 3.5)</td><td>2</td></tr> <tr><td></td><td></td><td>T206C</td><td>325639</td><td>M16 EYE BOLT 500 - Thread Length 75mm</td><td>1</td></tr> <tr><td></td><td></td><td>T208B</td><td>323307</td><td>GAIN BLOCK 125mm</td><td>1</td></tr> <tr><td></td><td></td><td>T209D</td><td>66807</td><td>M16 ELS-V Square Washer 50 x 50 x 4.0mm, Diagonal 70.7mm.</td><td>1</td></tr> <tr><td></td><td></td><td>T220</td><td>149110</td><td>HV ABC Catenary Termination (Dead End) 19/2.00 (TYCO SGG0975)</td><td>1</td></tr> <tr><td></td><td></td><td>T221D</td><td>NEW</td><td>Metallic Screen HV ABC Suspension Clamp 22kV 185mm2 (TYCO IBSH1085)</td><td>1</td></tr> <tr><td></td><td></td><td>T223D</td><td>NEW</td><td>Metallic Screen HV ABC Cable 22kV 185mm2 (Olex Product Code ULHA25AA003)</td><td>1</td></tr> <tr><td></td><td></td><td>T225D</td><td>NEW</td><td>Metallic Screen HV ABC Cable Termination 22kV 185mm2, 3x1C 19/2.00-10mm Dia Gal Catenary</td><td>3</td></tr> <tr><td></td><td></td><td>T226A</td><td>NEW</td><td>Surge Arrester/Stand Off Insulator/EDO Mounting Bracket - Crossarm Mounted ('L' Bracket 360 x 52x10)</td><td>3</td></tr> <tr><td></td><td></td><td>T227</td><td>32334</td><td>Bolt Hex M24 X 180 - Thread Length 75mm</td><td>3</td></tr> <tr><td></td><td></td><td>T228</td><td>40448</td><td>Nut Hex M24 (36mm across Flats, 21mm Thick)</td><td>3</td></tr> <tr><td></td><td></td><td>T229A</td><td>NEW</td><td>M24 Washer NS (ID-26mm, OD-48mm, Thickness 4.0mm)</td><td>6</td></tr> <tr><td></td><td></td><td>T330</td><td>NEW</td><td>Conductor Clamp Cu Par/Groove 16-95mm2 (TE Connectivity HEL-3030 Prod Code 831160-000)</td><td>1</td></tr> <tr><td></td><td></td><td>T331</td><td>NEW</td><td>Nylon Cable Tie UV Stabilised, Fixing 19/2.14 CU PVC S/Arrester Earth Lead to FRP X-Arm</td><td>4</td></tr> <tr><td></td><td></td><td>T332D</td><td>NEW</td><td>Ellis Bundle Clamp for Metallic Screen HVABC Cable 22kV 185mm2 - 'Protect' Trefoil Clamp</td><td>1</td></tr> <tr><td></td><td></td><td>T337B</td><td>141412</td><td>Ferrule - Copper, Cable Links for MS HVABC Cable 11/22kV 185mm2 Screen Wires - CSA 54.39mm2</td><td>3</td></tr> </tbody> </table> |  |                        |  |         | Store Type  | Item Ref   | Stock Item | Stock Item Description | Quantity    | DE/HVABC       | S             | 89       | 66803   | M20 ELS-V Square Washer 75 x 75 x 5.0mm, Diagonal 106.1mm. (Also used on Transformer Installations) | 1 | 22.185/3/FR |  | 119G | 225773 | Surge Diverter 10kA - 22kV | 3 | P |  | 35E | 141363 | Lug Crimp Cu M12 Hole 70mm2 Cable | 4 |  |  | 35K | 152482 | Lug Bi-Metal Compression Tinned M12 Hole 185mm2 Cable | 3 |  |  | 51D | 103212 | Conductor Cu Insulated Hard Drawn 1c 70mm2, 19/2.14 | 15 |  |  | 55J | 146857 | Conductor Connection Slit Bolt 'D' Brass Clamp | 2 |  |  | 61B | 322386 | Socket Termination 16mm | 1 |  |  | 61D | 322090 | 'W' Clip / Kink Pin | 1 |  |  | 62G | 225771 | Surge Diverter Cover Moulded with Nylon Bolts M5 x 12mm | 3 |  |  | 75E | 32279 | Bolt Hex M16 X 180 - Thread Length 57mm | 1 |  |  | 75N | 32287 | Bolt Hex M16 X 350 - Thread Length 57mm | 1 |  |  | 77B | 33771 | Bolt Tower M12 x 35 - Thread Length 20mm | 3 |  |  | 80E | 37263 | Bolt Eye M20 x 375 | 1 |  |  | 82A | 40441 | Nut Hex M16 | 5 |  |  | 82B | 40442 | Nut Hex M20 | 2 |  |  | 82C | 40440 | Nut Hex M12 | 3 |  |  | 86B | 65158 | Washer ELS M16 | 2 |  |  | 86C | 65159 | Washer ELS M20 | 1 |  |  | 87C | 65615 | Washer NS M12 | 3 |  |  | 87D | 65616 | Washer NS M16 | 4 |  |  | 87E | 65617 | Washer NS M20 | 1 |  |  | T200E | 323223 | CF XARM - 2840x125x125 - CA-125 SHS 2.834m ARM | 1 |  |  | T203A | 323316 | XARM BRACE - 716x40x8 | 1 |  |  | T205A | NEW | M16 Spring Washer - Galvanised Spring Steel DIN127B (OD: 27mm, ID: 16.2 - 17.0mm, Thickness: 3.5) | 2 |  |  | T206C | 325639 | M16 EYE BOLT 500 - Thread Length 75mm | 1 |  |  | T208B | 323307 | GAIN BLOCK 125mm | 1 |  |  | T209D | 66807 | M16 ELS-V Square Washer 50 x 50 x 4.0mm, Diagonal 70.7mm. | 1 |  |  | T220 | 149110 | HV ABC Catenary Termination (Dead End) 19/2.00 (TYCO SGG0975) | 1 |  |  | T221D | NEW | Metallic Screen HV ABC Suspension Clamp 22kV 185mm2 (TYCO IBSH1085) | 1 |  |  | T223D | NEW | Metallic Screen HV ABC Cable 22kV 185mm2 (Olex Product Code ULHA25AA003) | 1 |  |  | T225D | NEW | Metallic Screen HV ABC Cable Termination 22kV 185mm2, 3x1C 19/2.00-10mm Dia Gal Catenary | 3 |  |  | T226A | NEW | Surge Arrester/Stand Off Insulator/EDO Mounting Bracket - Crossarm Mounted ('L' Bracket 360 x 52x10) | 3 |  |  | T227 | 32334 | Bolt Hex M24 X 180 - Thread Length 75mm | 3 |  |  | T228 | 40448 | Nut Hex M24 (36mm across Flats, 21mm Thick) | 3 |  |  | T229A | NEW | M24 Washer NS (ID-26mm, OD-48mm, Thickness 4.0mm) | 6 |  |  | T330 | NEW | Conductor Clamp Cu Par/Groove 16-95mm2 (TE Connectivity HEL-3030 Prod Code 831160-000) | 1 |  |  | T331 | NEW | Nylon Cable Tie UV Stabilised, Fixing 19/2.14 CU PVC S/Arrester Earth Lead to FRP X-Arm | 4 |  |  | T332D | NEW | Ellis Bundle Clamp for Metallic Screen HVABC Cable 22kV 185mm2 - 'Protect' Trefoil Clamp | 1 |  |  | T337B | 141412 | Ferrule - Copper, Cable Links for MS HVABC Cable 11/22kV 185mm2 Screen Wires - CSA 54.39mm2 | 3 |
| Store Type  | Item Ref  | Stock Item   | Stock Item Description | Quantity   |         |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
| DE/HVABC  | S   | 89   | 66803                  | M20 ELS-V Square Washer 75 x 75 x 5.0mm, Diagonal 106.1mm. (Also used on Transformer Installations)  | 1       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
| 22.185/3/FR   |   | 119G   | 225773                 | Surge Diverter 10kA - 22kV   | 3       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
| P   |   | 35E  | 141363                 | Lug Crimp Cu M12 Hole 70mm2 Cable  | 4       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | 35K  | 152482                 | Lug Bi-Metal Compression Tinned M12 Hole 185mm2 Cable  | 3       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | 51D  | 103212                 | Conductor Cu Insulated Hard Drawn 1c 70mm2, 19/2.14  | 15      |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | 55J  | 146857                 | Conductor Connection Slit Bolt 'D' Brass Clamp   | 2       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | 61B  | 322386                 | Socket Termination 16mm  | 1       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | 61D  | 322090                 | 'W' Clip / Kink Pin  | 1       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | 62G  | 225771                 | Surge Diverter Cover Moulded with Nylon Bolts M5 x 12mm  | 3       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | 75E  | 32279                  | Bolt Hex M16 X 180 - Thread Length 57mm  | 1       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | 75N  | 32287                  | Bolt Hex M16 X 350 - Thread Length 57mm  | 1       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | 77B  | 33771                  | Bolt Tower M12 x 35 - Thread Length 20mm   | 3       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | 80E  | 37263                  | Bolt Eye M20 x 375   | 1       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | 82A  | 40441                  | Nut Hex M16  | 5       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | 82B  | 40442                  | Nut Hex M20  | 2       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | 82C  | 40440                  | Nut Hex M12  | 3       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | 86B  | 65158                  | Washer ELS M16   | 2       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | 86C  | 65159                  | Washer ELS M20   | 1       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | 87C  | 65615                  | Washer NS M12  | 3       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | 87D  | 65616                  | Washer NS M16  | 4       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | 87E  | 65617                  | Washer NS M20  | 1       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | T200E  | 323223                 | CF XARM - 2840x125x125 - CA-125 SHS 2.834m ARM   | 1       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | T203A  | 323316                 | XARM BRACE - 716x40x8  | 1       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | T205A  | NEW                    | M16 Spring Washer - Galvanised Spring Steel DIN127B (OD: 27mm, ID: 16.2 - 17.0mm, Thickness: 3.5)    | 2       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | T206C  | 325639                 | M16 EYE BOLT 500 - Thread Length 75mm  | 1       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | T208B  | 323307                 | GAIN BLOCK 125mm   | 1       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | T209D  | 66807                  | M16 ELS-V Square Washer 50 x 50 x 4.0mm, Diagonal 70.7mm.  | 1       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | T220   | 149110                 | HV ABC Catenary Termination (Dead End) 19/2.00 (TYCO SGG0975)  | 1       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | T221D  | NEW                    | Metallic Screen HV ABC Suspension Clamp 22kV 185mm2 (TYCO IBSH1085)                                  | 1       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | T223D  | NEW                    | Metallic Screen HV ABC Cable 22kV 185mm2 (Olex Product Code ULHA25AA003)                             | 1       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | T225D  | NEW                    | Metallic Screen HV ABC Cable Termination 22kV 185mm2, 3x1C 19/2.00-10mm Dia Gal Catenary             | 3       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | T226A  | NEW                    | Surge Arrester/Stand Off Insulator/EDO Mounting Bracket - Crossarm Mounted ('L' Bracket 360 x 52x10) | 3       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | T227   | 32334                  | Bolt Hex M24 X 180 - Thread Length 75mm  | 3       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | T228   | 40448                  | Nut Hex M24 (36mm across Flats, 21mm Thick)  | 3       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | T229A  | NEW                    | M24 Washer NS (ID-26mm, OD-48mm, Thickness 4.0mm)  | 6       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | T330   | NEW                    | Conductor Clamp Cu Par/Groove 16-95mm2 (TE Connectivity HEL-3030 Prod Code 831160-000)               | 1       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | T331   | NEW                    | Nylon Cable Tie UV Stabilised, Fixing 19/2.14 CU PVC S/Arrester Earth Lead to FRP X-Arm              | 4       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | T332D  | NEW                    | Ellis Bundle Clamp for Metallic Screen HVABC Cable 22kV 185mm2 - 'Protect' Trefoil Clamp             | 1       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | T337B  | 141412                 | Ferrule - Copper, Cable Links for MS HVABC Cable 11/22kV 185mm2 Screen Wires - CSA 54.39mm2          | 3       |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
| D   |   |  |                        |  |         |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
| E   |   |  |                        |  |         |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
| F   |   |  |                        |  |         |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
| G   |   |  |                        |  |         |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
| H   |   |  |                        |  |         |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
| A<br>L<br>T<br>E<br>R<br>A<br>T<br>I<br>O<br>N<br>S | O<br>R<br>I<br>G<br>I<br>N<br>A<br>L<br>I<br>S<br>S<br>U<br>E   |   |                        | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299                      |         |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;">DRAWN</td><td style="width: 50%;">ELECTRO</td></tr> <tr><td>DESIGNED BY</td><td>B.MAYBERRY</td></tr> <tr><td>CHECKED BY</td><td>K.GOSDEN</td></tr> <tr><td>APPROVED BY</td><td>MICHAEL COOPER</td></tr> <tr><td>DATE APPROVED</td><td>FEB 2022</td></tr> </table> |                        | DRAWN  | ELECTRO | DESIGNED BY | B.MAYBERRY | CHECKED BY | K.GOSDEN               | APPROVED BY | MICHAEL COOPER | DATE APPROVED | FEB 2022 | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNETWORKS |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
| DRAWN   | ELECTRO   |  |                        |  |         |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
| DESIGNED BY   | B.MAYBERRY  |  |                        |  |         |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
| CHECKED BY  | K.GOSDEN  |  |                        |  |         |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
| APPROVED BY   | MICHAEL COOPER  |  |                        |  |         |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
| DATE APPROVED                                       | FEB 2022  |  |                        |  |         |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | TITLE<br>MS HVABC DEAD END<br>FRP CROSSARM<br>MATERIAL LIST - 185mm2 22KV ABC  |                        | SCALE<br>NTS   |         |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |
|   |   | D - OHC - C103 - SD - 005  |                        | REVISION<br>A  |         |             |            |            |                        |             |                |               |          |   |   |   |             |  |      |        |                            |   |   |  |     |        |                                   |   |  |  |     |        |   |   |  |  |     |        |   |    |  |  |     |        |  |   |  |  |     |        |                         |   |  |  |     |        |                     |   |  |  |     |        |   |   |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |  |   |  |  |     |       |                    |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |     |       |               |   |  |  |       |        |  |   |  |  |       |        |                       |   |  |  |       |     |   |   |  |  |       |        |                                       |   |  |  |       |        |                  |   |  |  |       |       |   |   |  |  |      |        |   |   |  |  |       |     |   |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |  |   |  |  |      |       |   |   |  |  |      |       |   |   |  |  |       |     |   |   |  |  |      |     |  |   |  |  |      |     |   |   |  |  |       |     |  |   |  |  |       |        |   |   |

DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED

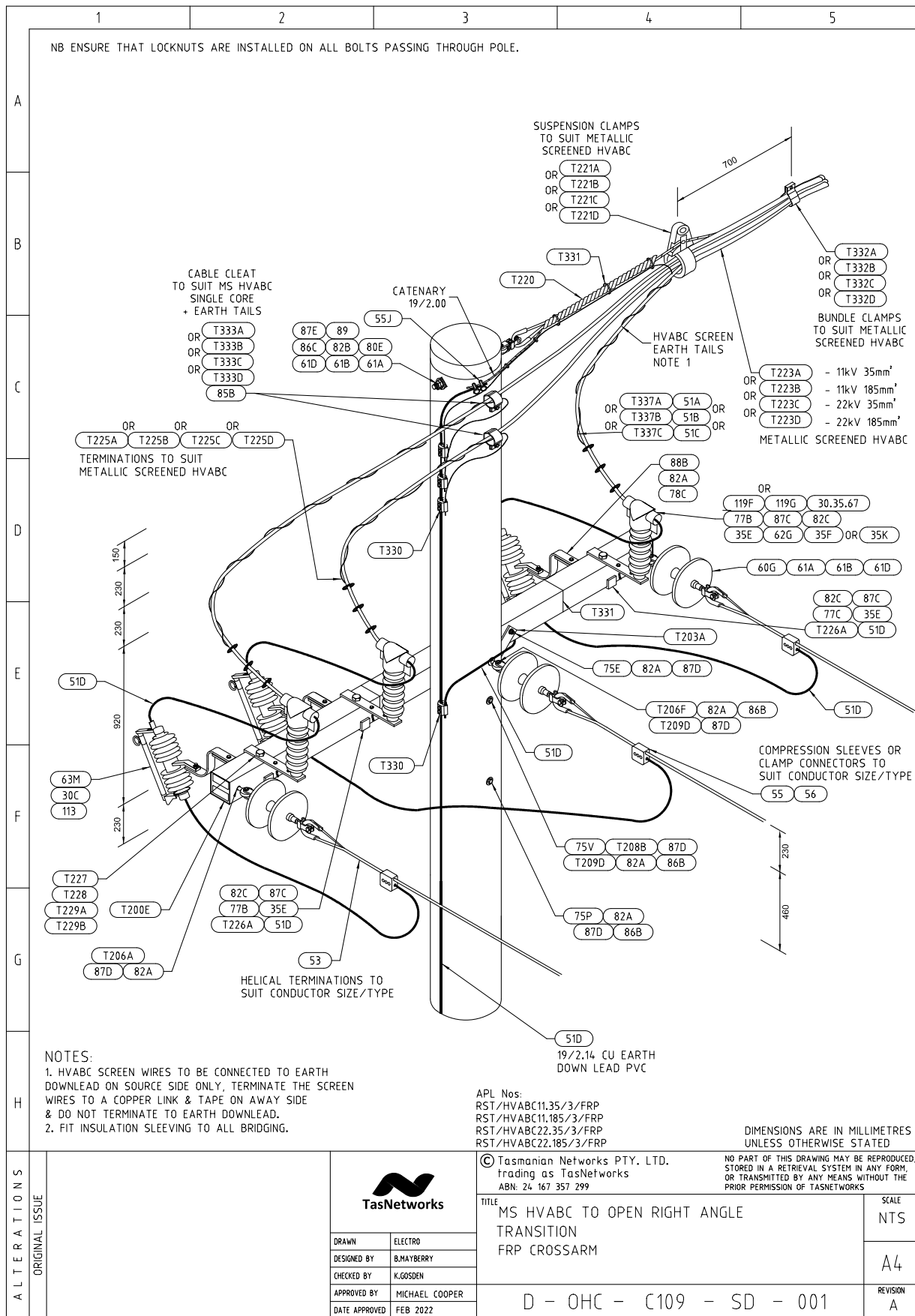
### 3.6 MS HVABC 185mm<sup>2</sup> Strain with Tee-off



MS HVABC 185mm<sup>2</sup> Strain with Tee-off - Material List

|       |  | 1   | 2   | 3                             | 4   | 5    |   |   |               |
|-------|--|---|---|-------------------------------|---|------|---|---|---------------|
| A     | STO/HVABC<br>11.185/3/PL<br>M                            | S   | T220  | 149110                        | HV ABC Catenary Termination (Dead End) 19/2.00 (TYCO SGG0975)                                       | 3    |   |   |               |
|       |  |   | T221B   | NEW                           | Metallic Screen HV ABC Suspension Clamp 11kV 185mm2 (TYCO IBSH1075)                                 | 3    |   |   |               |
|       |  |   | T223B   | NEW                           | Metallic Screen HV ABC Cable 11kV 185mm2 (Olex Product Code UJHA25AA003)                            | 3    |   |   |               |
|       |  |   | T332B   | NEW                           | Ellis Bundle Clamp for Metallic Screen HVABC Cable 11kV 185mm2 - 'Protect' Trefoil Clamp            | 3    |   |   |               |
|       |  |   | T337B   | 141412                        | Ferrule - Copper, Cable Links for MS HVABC Cable 11/22kV 185mm2 Screen Wires - CSA 54.39mm2         | 9    |   |   |               |
|       |  |   | T340A   | 149311                        | Bracket, Tee Support, Pole Mounted 185mm2 MS HVABC Cable Tee Joints - AusNet Dwg. VX14/433/4.       | 1    |   |   |               |
|       |  |   | T341A   | 165270                        | 600A Bolted Elbow Termination 3-Way 11kV 185mm2 MS HVABC Cable. AusNet Dwg. EVX9/140/44.            | 3    |   |   |               |
|       |  |   | T331  | NEW                           | Nylon Cable Tie UV Stabilised, Fixing 19/2.14 CU PVC S/Arrester Earth Lead to FRP X-Arm             | 11   |   |   |               |
|       |  |   | T340B   | 149313                        | Clamp, Band Suits 35 & 185mm2 MS HVABC Cable Tee Joint Brackets - AusNet Dwg. VX14/298.             | 1    |   |   |               |
|       |  |   | 80E   | 37263                         | Bolt Eye M20 x 375  | 3    |   |   |               |
|       |  |   | 86C   | 65159                         | Washer ELS M20  | 3    |   |   |               |
|       |  |   | 82B   | 40442                         | Nut Hex M20   | 6    |   |   |               |
|       |  |   | 89  | 66803                         | M20 ELS-V Square Washer 75 x 75 x 5.0mm, Diagonal 106.1mm. (Also used on Transformer Installations) | 3    |   |   |               |
|       |  |   | 87E   | 65617                         | Washer NS M20   | 3    |   |   |               |
|       |  |   | 61A   | 322056                        | Ball Clevis & Pin 16mm  | 3    |   |   |               |
|       |  |   | 61B   | 322386                        | Socket Termination 16mm   | 3    |   |   |               |
|       |  |   | 61D   | 322090                        | W' Clip / Kink Pin  | 3    |   |   |               |
|       |  |   | 51C   | 94180                         | Conductor Cu Insulated Hard Drawn 1c 50mm2, 19/1.78   | 8    |   |   |               |
|       |  |   | 35E   | 141363                        | Lug Crimp Cu M12 Hole 70mm2 Cable   | 1    |   |   |               |
|       |  |   | 51D   | 103212                        | Conductor Cu Insulated Hard Drawn 1c 70mm2, 19/2.14   | 12   |   |   |               |
|       |  |   | T330  | NEW                           | Conductor Clamp Cu Par/Groove 16-95mm2 (TE Connectivity HEL-3030 Prod Code 831160-000)              | 4    |   |   |               |
|       |  |   | 55J   | 146857                        | Conductor Connection Slit Bolt 'D' Brass Clamp  | 6    |   |   |               |
|       |  |   | B   | STO/HVABC<br>22.185/3/PL<br>M | S   | T220 | 149110  | HV ABC Catenary Termination (Dead End) 19/2.00 (TYCO SGG0975) | 3             |
| T221D | NEW  | Metallic Screen HV ABC Suspension Clamp 22kV 185mm2 (TYCO IBSH1085)                                 |   |                               |   | 3    |   |   |               |
| T223D | NEW  | Metallic Screen HV ABC Cable 22kV 185mm2 (Olex Product Code ULHA25AA003)                            |   |                               |   | 3    |   |   |               |
| T332D | NEW  | Ellis Bundle Clamp for Metallic Screen HVABC Cable 22kV 185mm2 - 'Protect' Trefoil Clamp            |   |                               |   | 3    |   |   |               |
| T337B | 141412   | Ferrule - Copper, Cable Links for MS HVABC Cable 11/22kV 185mm2 Screen Wires - CSA 54.39mm2         |   |                               |   | 9    |   |   |               |
| T340A | 149311   | Bracket, Tee Support, Pole Mounted 185mm2 MS HVABC Cable Tee Joints - AusNet Dwg. VX14/433/4.       |   |                               |   | 1    |   |   |               |
| T341B | 165272   | 600A Bolted Elbow Termination 3-Way 22kV 185mm2 MS HVABC Cable. AusNet Dwg. EVX9/140/44             |   |                               |   | 3    |   |   |               |
| T331  | NEW  | Nylon Cable Tie UV Stabilised, Fixing 19/2.14 CU PVC S/Arrester Earth Lead to FRP X-Arm             |   |                               |   | 11   |   |   |               |
| T340B | 149313   | Clamp, Band Suits 35 & 185mm2 MS HVABC Cable Tee Joint Brackets - AusNet Dwg. VX14/298.             |   |                               |   | 1    |   |   |               |
| 80E   | 37263  | Bolt Eye M20 x 375  |   |                               |   | 3    |   |   |               |
| 86C   | 65159  | Washer ELS M20  |   |                               |   | 3    |   |   |               |
| 82B   | 40442  | Nut Hex M20   |   |                               |   | 6    |   |   |               |
| 89    | 66803  | M20 ELS-V Square Washer 75 x 75 x 5.0mm, Diagonal 106.1mm. (Also used on Transformer Installations) |   |                               |   | 3    |   |   |               |
| 87E   | 65617  | Washer NS M20   |   |                               |   | 3    |   |   |               |
| 61A   | 322056   | Ball Clevis & Pin 16mm  |   |                               |   | 3    |   |   |               |
| 61B   | 322386   | Socket Termination 16mm   |   |                               |   | 3    |   |   |               |
| 61D   | 322090   | W' Clip / Kink Pin  |   |                               |   | 3    |   |   |               |
| 51C   | 94180  | Conductor Cu Insulated Hard Drawn 1c 50mm2, 19/1.78   |   |                               |   | 8    |   |   |               |
| 35E   | 141363   | Lug Crimp Cu M12 Hole 70mm2 Cable   |   |                               |   | 1    |   |   |               |
| 51D   | 103212   | Conductor Cu Insulated Hard Drawn 1c 70mm2, 19/2.14   |   |                               |   | 12   |   |   |               |
| T330  | NEW  | Conductor Clamp Cu Par/Groove 16-95mm2 (TE Connectivity HEL-3030 Prod Code 831160-000)              |   |                               |   | 4    |   |   |               |
| 55J   | 146857   | Conductor Connection Slit Bolt 'D' Brass Clamp  |   |                               |   | 6    |   |   |               |
| C     | DIMENSIONS ARE IN MILLIMETRES<br>UNLESS OTHERWISE STATED |   |   |                               |   |      |   |   |               |
|       | ALTERNATIONS   | ORIGINAL ISSUE  |  |                               | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299                     |      | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNETWORKS |   |               |
|       |  |   |   |                               | TITLE<br>MS HVABC 185mm2 STRAIN WITH TEE-OFF<br>MATERIAL LIST                                       |      |   | SCALE<br>NTS  |               |
|       |  |   | DRAWN   | ELECTRO                       | APPROVED BY<br>MICHAEL COOPER   |      | D - OHC - C106 - SD - 002   |   | REVISION<br>A |
|       |  |   | DESIGNED BY   | B.MAYBERRY                    | DATE APPROVED<br>FEB 2022   |      |   |   |               |
|       |  |   | CHECKED BY  | K.GOSDEN                      |   |      |   |   |               |


### 3.7 MS HVABC to Open Wire Right Angle Transition FRP Crossarm



|             |                |  |   |
|-------------|----------------|--|---|
| ALTERATIONS | ORIGINAL ISSUE |  | DRAWN: ELECTRO<br>DESIGNED BY: B.MAYBERRY<br>CHECKED BY: K.GOSDEN<br>APPROVED BY: MICHAEL COOPER<br>DATE APPROVED: FEB 2022 |
|             |                |  |   |
|             |                |  |   |
|             |                |  |   |
|             |                |  |   |





|  |   |  |
|--|---|--|
| APL Nos:<br>RST/HVABC11.35/3/FRP<br>RST/HVABC11.185/3/FRP<br>RST/HVABC22.35/3/FRP<br>RST/HVABC22.185/3/FRP | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299 | NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS |
| TITLE: MS HVABC TO OPEN RIGHT ANGLE TRANSITION FRP CROSSARM  |   | SCALE: NTS   |
| D - OHC - C109 - SD - 001  |   | A4   |
|  |   | REVISION: A  |

MS HVABC to Open Wire Right Angle Transition, FRP Crossarm - Material List 1


|              |                | 1 | 2 | 3  | 4 | 5   |
|--------------|----------------|---|---|--|---|---|
| A            |                |   |   |  |   |   |
|              |                |   |   |  |   |   |
| B            |                |   |   |  |   |   |
|              |                |   |   |  |   |   |
| C            |                |   |   |  |   |   |
|              |                |   |   |  |   |   |
| D            |                |   |   |  |   |   |
|              |                |   |   |  |   |   |
| E            |                |   |   |  |   |   |
|              |                |   |   |  |   |   |
| F            |                |   |   |  |   |   |
|              |                |   |   |  |   |   |
| G            |                |   |   |  |   |   |
|              |                |   |   |  |   |   |
| H            |                |   |   |  |   |   |
|              |                |   |   |  |   |   |
| ALTERNATIONS | ORIGINAL ISSUE |   |   |   |   | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299                   |
|              |                |   |   | NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS |   | TITLE<br>MS HVABC TO OPEN WIRE RIGHT ANGLE TRANSITION FRP CROSSARM MATERIAL LIST - 35mm2 11KV ABC |
|              |                |   |   | DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED  |   | SCALE<br>NTS  |
|              |                |   |   | D - OHC - C109 - SD - 002  |   | REVISION<br>A   |
|              |                |   |   | DRAWN ELECTRO<br>DESIGNED BY B.MAYBERRY<br>CHECKED BY K.GOSDEN<br>APPROVED BY MICHAEL COOPER<br>DATE APPROVED FEB 2020                                       |   |   |



MS HVABC to Open Wire Right Angle Transition, FRP Crossarm - Material List 2

|              |  | 1              | 2 | 3   | 4 | 5  |
|--------------|--|----------------|---|---|---|--|
| A            |  |                |   |   |   |  |
|              |  |                |   |   |   |  |
| B            |  |                |   |   |   |  |
|              |  |                |   |   |   |  |
| C            |  |                |   |   |   |  |
|              |  |                |   |   |   |  |
| D            |  |                |   |   |   |  |
|              |  |                |   |   |   |  |
| E            |  |                |   |   |   |  |
|              |  |                |   |   |   |  |
| F            |  |                |   |   |   |  |
|              |  |                |   |   |   |  |
| G            |  |                |   |   |   |  |
|              |  |                |   |   |   |  |
| H            |  |                |   |   |   |  |
|              |  |                |   |   |   |  |
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|              |  |                |   |   |   | NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS |
| ALTERNATIONS |  | ORIGINAL ISSUE |   |  |   | TITLE<br>MS HVABC TO OPEN EWIRE RIGHT ANGLE<br>TRANSITION FRP CROSSARM<br>MATERIAL LIST - 185mm2 11KV ABC  |
|              |  |                |   |   |   | SCALE<br>NTS   |
| ALTERNATIONS |  | ORIGINAL ISSUE |   |  |   | DRAWN ELECTRO<br>DESIGNED BY B.MAYBERRY<br>CHECKED BY K.GOSDEN<br>APPROVED BY MICHAEL COOPER<br>DATE APPROVED FEB 2022                                       |
|              |  |                |   |   |   | REVISION<br>A  |
| ALTERNATIONS |  | ORIGINAL ISSUE |   |  |   | D - OHC - C109 - SD - 003  |
|              |  |                |   |   |   | REVISION<br>A  |

MS HVABC to Open Wire Right Angle Transition, FRP Crossarm - Material List 3

| 1             |       | 2  |                          | 3  |   | 4   |   | 5 |   |  |       |  |
|---------------|-------|--|--------------------------|--|---|---|---|---|---|--|-------|--|
| A             |       |  |                          |  |   |   |   |   |   |  |       |  |
|               | B     | S  | Store Type               | Item Ref   | Stock Item  | Stock Item Description  | Quantity  |   |   |  |       |  |
|               |       |  | RST/HVABC<br>22.35/3/FRP | 89   | 66803   | M20 ELS-V Square Washer 75 x 75 x 5.0mm, Diagonal 106.1mm. (Also used on Transformer Installations) | 1   |   |   |  |       |  |
|               |       |  | 113                      | 0  | Expulsion Drop Out Fuse Element AK1 - Size as Required                              | 3   |   |   |   |  |       |  |
|               |       |  | 303567                   | 303567   | Termination Bar for Surge Arresters & Stand Off insulator                           | 3   |   |   |   |  |       |  |
|               |       |  | 119G                     | 225773   | Surge Diverter 10kA - 22kV  | 3   |   |   |   |  |       |  |
|               |       |  | 30C                      | 235501   | Fuse Tube EDO, Suits NGK and ABB Fuse Carriers                                      | 3   |   |   |   |  |       |  |
|               |       |  | 35E                      | 141363   | Lug Crimp Cu M12 Hole 70mm <sup>2</sup> Cable                                       | 13  |   |   |   |  |       |  |
|               |       |  | 35F                      | 152476   | Lug Bi-Metal Compression Tinned M12 Hole 35mm <sup>2</sup> Cable                    | 3   |   |   |   |  |       |  |
|               |       |  | 51B                      | 103209   | Conductor Cu Insulated Hard Drawn 1c 25mm <sup>2</sup> , 19/1.35                    | 12  |   |   |   |  |       |  |
|               |       |  | 51D                      | 103212   | Conductor Cu Insulated Hard Drawn 1c 70mm <sup>2</sup> , 19/2.14                    | 35  |   |   |   |  |       |  |
|               |       |  | 55J                      | 146857   | Conductor Connection Slit Bolt 'D' Brass Clamp                                      | 2   |   |   |   |  |       |  |
|               |       |  | 60G                      | 321260   | Insulator Disc Porcelain 16mm 70Kn 146mm  | 6   |   |   |   |  |       |  |
|               |       |  | 61A                      | 322056   | Ball Clevis & Pin 16mm  | 4   |   |   |   |  |       |  |
|               |       |  | 61B                      | 322386   | Socket Termination 16mm   | 4   |   |   |   |  |       |  |
|               |       |  | 61D                      | 322090   | 'W' Clip / Kink Pin   | 10  |   |   |   |  |       |  |
|               |       |  | 62G                      | 225771   | Surge Diverter Cover Moulded with Nylon Bolts M5 x 12mm                             | 3   |   |   |   |  |       |  |
|               |       |  | 63M                      | 236323   | Switch Fuse EDO 24kV 8kA  | 3   |   |   |   |  |       |  |
|               |       |  | C                        | D  | 75E   | 32279   | Bolt Hex M16 X 180 - Thread Length 57mm   | 1 |   |  |       |  |
|               |       |  |                          |  | 75P   | 32288   | Bolt Hex M16 X 375 - Thread Length 75mm   | 1 |   |  |       |  |
| 75V           |       |  |                          |  | 32295   | Bolt Hex M16 X 525 - Thread Length 75mm   | 1   |   |   |  |       |  |
| 77B           | 33771 | Bolt Tower M12 x 35 - Thread Length 20mm                 |                          |  | 9   |   |   |   |   |  |       |  |
| 77C           | 33772 | Bolt Tower M12 x 40 - Thread Length 20mm                 |                          |  | 3   |   |   |   |   |  |       |  |
| 78C           | 33782 | Bolt Tower M16 x 45 - Thread Length 24mm                 |                          |  | 3   |   |   |   |   |  |       |  |
| 80E           | 37263 | Bolt Eye M20 x 375                                       |                          |  | 1   |   |   |   |   |  |       |  |
| 82A           | 40441 | Nut Hex M16  |                          |  | 12  |   |   |   |   |  |       |  |
| 82B           | 40442 | Nut Hex M20  |                          |  | 2   |   |   |   |   |  |       |  |
| 82C           | 40440 | Nut Hex M12  |                          |  | 9   |   |   |   |   |  |       |  |
| D             | E     | 85B  | 50250                    | Coach Screw M12x100  | 2   |   |   |   |   |  |       |  |
|               |       | 86B  | 65158                    | Washer ELS M16   | 3   |   |   |   |   |  |       |  |
|               |       | 86C  | 65159                    | Washer ELS M20   | 1   |   |   |   |   |  |       |  |
|               |       | 87C  | 65615                    | Washer NS M12  | 9   |   |   |   |   |  |       |  |
|               |       | 87D  | 65616                    | Washer NS M16  | 9   |   |   |   |   |  |       |  |
|               |       | 87E  | 65617                    | Washer NS M20  | 1   |   |   |   |   |  |       |  |
|               |       | 88B  | 66413                    | Washer Tower M16   | 3   |   |   |   |   |  |       |  |
|               |       | T200E  | 323223                   | CF XARM - 2840x125x125 - CA-125 SHS 2.834m ARM   | 1   |   |   |   |   |  |       |  |
|               |       | T203A  | 323316                   | XARM BRACE - 716x40x8  | 1   |   |   |   |   |  |       |  |
|               |       | T206A  | 325628                   | M16 EYE BOLT 150 - Thread Length 60mm  | 2   |   |   |   |   |  |       |  |
| E             | F     | T206F  | 325638                   | M16 EYE BOLT 375 - Thread Length 75mm  | 1   |   |   |   |   |  |       |  |
|               |       | T208B  | 323307                   | GAIN BLOCK 125mm   | 1   |   |   |   |   |  |       |  |
|               |       | T209D  | 66807                    | M16 ELS-V Square Washer 50 x 50 x 4.0mm, Diagonal 70.7mm.  | 2   |   |   |   |   |  |       |  |
|               |       | T220   | 149110                   | HV ABC Catenary Termination (Dead End) 19/2.00 (TYCO SGG0975)  | 1   |   |   |   |   |  |       |  |
|               |       | T221C  | NEW                      | Metallic Screen HV ABC Suspension Clamp 22kV 35mm <sup>2</sup> (TYCO IBSH1060)                                 | 1   |   |   |   |   |  |       |  |
|               |       | T223C  | NEW                      | Metallic Screen HV ABC Cable 22kV 35mm <sup>2</sup> (Olex Product Code ULHA18AA003)                            | 1   |   |   |   |   |  |       |  |
|               |       | T225C  | NEW                      | Metallic Screen HV ABC Cable Termination 22kV 35mm <sup>2</sup> , 3x1C, 19/2.00-10mm Dia Gal Catenary          | 3   |   |   |   |   |  |       |  |
|               |       | T226A  | NEW                      | Surge Arrester/Stand Off Insulator/EDO Mounting Bracket - Crossarm Mounted ('L' Bracket 360 x 52x10)           | 6   |   |   |   |   |  |       |  |
|               |       | T227   | 32334                    | Bolt Hex M24 X 180 - Thread Length 75mm  | 3   |   |   |   |   |  |       |  |
|               |       | T228   | 40448                    | Nut Hex M24 (36mm across Flats, 21mm Thick)  | 3   |   |   |   |   |  |       |  |
| F             | G     | T229A  | NEW                      | M24 Washer NS (ID-26mm, OD-48mm, Thickness 4.0mm)  | 3   |   |   |   |   |  |       |  |
|               |       | T330   | NEW                      | Conductor Clamp Cu Par/Groove 16-95mm <sup>2</sup> (TE Connectivity HEL-3030 Prod Code 831160-000)             | 5   |   |   |   |   |  |       |  |
|               |       | T331   | NEW                      | Nylon Cable Tie UV Stabilised, Fixing 19/2.14 CU PVC S/Arrester Earth Lead to FRP X-Arm                        | 9   |   |   |   |   |  |       |  |
|               |       | T332C  | NEW                      | Ellis Bundle Clamp for Metallic Screen HVABC Cable 22kV 35mm <sup>2</sup> - 'Protect' Trefoil Clamp            | 1   |   |   |   |   |  |       |  |
|               |       | T333C  | NEW                      | Ellis Cable Cleat Pole Mnted for MS HVABC Cable 22kV 35mm <sup>2</sup> Cable Cores, Emperor Single Core Cleat  | 2   |   |   |   |   |  |       |  |
|               |       | T337C  | 141414                   | Ferrule - Copper, Cable Links for MS HVABC Cable 22kV 35mm <sup>2</sup> Screen Wires - CSA 22.7mm <sup>2</sup> | 3   |   |   |   |   |  |       |  |
|               |       | DIMENSIONS ARE IN MILLIMETRES<br>UNLESS OTHERWISE STATED |                          |  |   |   |   |   |   |  |       |  |
|               |       | H  | ALTERNATIONS             | ORIGINAL ISSUE   |  |   | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299 |   | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNETWORKS |  |       |  |
|               |       |  |                          |  | DRAWN   |   | ELECTRO   |   | TITLE   |  | SCALE |  |
|               |       |  |                          |  | DESIGNED BY   |   | B.MAYBERRY  |   | MS HVABC TO OPEN WIRE RIGHT ANGLE<br>TRANSITION FRP CROSSARM<br>MATERIAL LIST - 35mm <sup>2</sup> 22KV ABC  |  | NTS   |  |
| CHECKED BY    |       |  |                          |  | K.GOSDEN  |   | D - OHC - C109 - SD - 004   |   | A4  |  |       |  |
| APPROVED BY   |       | MICHAEL COOPER   |                          |  |   | REVISION  |   |   |   |  |       |  |
| DATE APPROVED |       | FEB 2022   |                          |  |   | A   |   |   |   |  |       |  |

MS HVABC to Open Wire Right Angle Transition FRP Crossarm - Material List 4

| 1 | 2     | 3      | 4   | 5      |   |    |
|---|-------|--------|---|--------|---|----|
| A |       |        |   |        |   |    |
|   | B     | S      | 89  | 66803  | M20 ELS-V Square Washer 75 x 75 x 5.0mm, Diagonal 106.1mm. (Also used on Transformer Installations) | 1  |
|   |       |        | 113   | 0      | Expulsion Drop Out Fuse Element AK1 - Size as Required  | 3  |
|   |       |        | 303567  | 303567 | Termination Bar for Surge Arresters & Stand Off insulator   | 3  |
|   |       |        | 119G  | 225773 | Surge Diverter 10kA - 22kV  | 3  |
|   |       |        | 30C   | 235501 | Fuse Tube EDO, Suits NGK and ABB Fuse Carriers  | 3  |
|   |       |        | 35E   | 141363 | Lug Crimp Cu M12 Hole 70mm2 Cable   | 13 |
|   |       |        | 35K   | 152482 | Lug Bi-Metal Compression Tinned M12 Hole 185mm2 Cable   | 3  |
|   |       |        | 51C   | 94180  | Conductor Cu Insulated Hard Drawn 1c 50mm2, 19/1.78   | 12 |
|   |       |        | 51D   | 103212 | Conductor Cu Insulated Hard Drawn 1c 70mm2, 19/2.14   | 35 |
| C |       |        | 55J   | 146857 | Conductor Connection Slit Bolt 'D' Brass Clamp  | 2  |
|   | 60G   | 321260 | Insulator Disc Porcelain 16mm 70Kn 146mm  | 6      |   |    |
|   | 61A   | 322056 | Ball Clevis & Pin 16mm  | 4      |   |    |
|   | 61B   | 322386 | Socket Termination 16mm   | 4      |   |    |
|   | 61D   | 322090 | 'W' Clip / Kink Pin   | 10     |   |    |
|   | 62G   | 225771 | Surge Diverter Cover Moulded with Nylon Bolts M5 x 12mm   | 3      |   |    |
|   | 63M   | 236323 | Switch Fuse EDO 24kV 8kA  | 3      |   |    |
|   | 75E   | 32279  | Bolt Hex M16 X 180 - Thread Length 57mm   | 1      |   |    |
|   | 75P   | 32288  | Bolt Hex M16 X 375 - Thread Length 75mm   | 1      |   |    |
|   | 75V   | 32295  | Bolt Hex M16 X 525 - Thread Length 75mm   | 1      |   |    |
| D | 77B   | 33771  | Bolt Tower M12 x 35 - Thread Length 20mm  | 9      |   |    |
|   | 77C   | 33772  | Bolt Tower M12 x 40 - Thread Length 20mm  | 3      |   |    |
|   | 78C   | 33782  | Bolt Tower M16 x 45 - Thread Length 24mm  | 3      |   |    |
|   | 80E   | 37263  | Bolt Eye M20 x 375  | 1      |   |    |
|   | 82A   | 40441  | Nut Hex M16   | 12     |   |    |
|   | 82B   | 40442  | Nut Hex M20   | 2      |   |    |
|   | 82C   | 40440  | Nut Hex M12   | 9      |   |    |
|   | 85B   | 50250  | Coach Screw M12x100   | 2      |   |    |
|   | 86B   | 65158  | Washer ELS M16  | 3      |   |    |
|   | 86C   | 65159  | Washer ELS M20  | 1      |   |    |
| E | 87C   | 65615  | Washer NS M12   | 9      |   |    |
|   | 87D   | 65616  | Washer NS M16   | 9      |   |    |
|   | 87E   | 65617  | Washer NS M20   | 1      |   |    |
|   | 88B   | 66413  | Washer Tower M16  | 3      |   |    |
|   | T200E | 323223 | CF XARM - 2840x125x125 - CA-125 SHS 2.834m ARM  | 1      |   |    |
|   | T203A | 323316 | XARM BRACE - 716x40x8   | 1      |   |    |
|   | T206A | 325628 | M16 EYE BOLT 150 - Thread Length 60mm   | 2      |   |    |
|   | T206F | 325638 | M16 EYE BOLT 375 - Thread Length 75mm   | 1      |   |    |
|   | T208B | 323307 | GAIN BLOCK 125mm  | 1      |   |    |
|   | T209D | 66807  | M16 ELS-V Square Washer 50 x 50 x 4.0mm, Diagonal 70.7mm.   | 2      |   |    |
| F | T220  | 149110 | HV ABC Catenary Termination (Dead End) 19/2.00 (TYCO SGG0975)                                       | 1      |   |    |
|   | T221D | NEW    | Metallic Screen HV ABC Suspension Clamp 22kV 185mm2 (TYCO IBSH1085)                                 | 1      |   |    |
|   | T223D | NEW    | Metallic Screen HV ABC Cable 22kV 185mm2 (Olex Product Code ULHA25AA003)                            | 1      |   |    |
|   | T225D | NEW    | Metallic Screen HV ABC Cable Termination 22kV 185mm2, 3x1C 19/2.00-10mm Dia Gal Catenary            | 3      |   |    |
|   | T226A | NEW    | Surge Arrester/Stand Off Insulator/EDO Mounting Bracket - Crossarm Mounted (L' Bracket 360 x 52x10) | 6      |   |    |
|   | T227  | 32334  | Bolt Hex M24 X 180 - Thread Length 75mm   | 3      |   |    |
|   | T228  | 40448  | Nut Hex M24 (36mm across Flats, 21mm Thick)   | 3      |   |    |
|   | T229A | NEW    | M24 Washer NS (ID-26mm, OD-48mm, Thickness 4.0mm)   | 3      |   |    |
|   | T330  | NEW    | Conductor Clamp Cu Par/Groove 16-95mm2 (TE Connectivity HEL-3030 Prod Code 831160-000)              | 5      |   |    |
|   | T331  | NEW    | Nylon Cable Tie UV Stabilised, Fixing 19/2.14 CU PVC S/Arrester Earth Lead to FRP X-Arm             | 9      |   |    |
| G | T332D | NEW    | Ellis Bundle Clamp for Metallic Screen HVABC Cable 22kV 185mm2 - 'Protect' Trefoil Clamp            | 1      |   |    |
|   | T333D | NEW    | Ellis Cable Cleat Pole Mnted for MS HVABC Cable 22kV 185mm2 Cable Cores, Emperor Single Core Cleat  | 2      |   |    |
|   | T337B | 141412 | Ferrule - Copper, Cable Links for MS HVABC Cable 11/22kV 185mm2 Screen Wires - CSA 54.39mm2         | 3      |   |    |
|   |       |        |   |        |   |    |

DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED

ALTERNATIONS ORIGINAL ISSUE



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TITLE MS HVABC TO OPEN WIRE RIGHT ANGLE TRANSITION FRP CROSSARM MATERIAL LIST - 185mm2 22KV ABC

SCALE NTS

A4

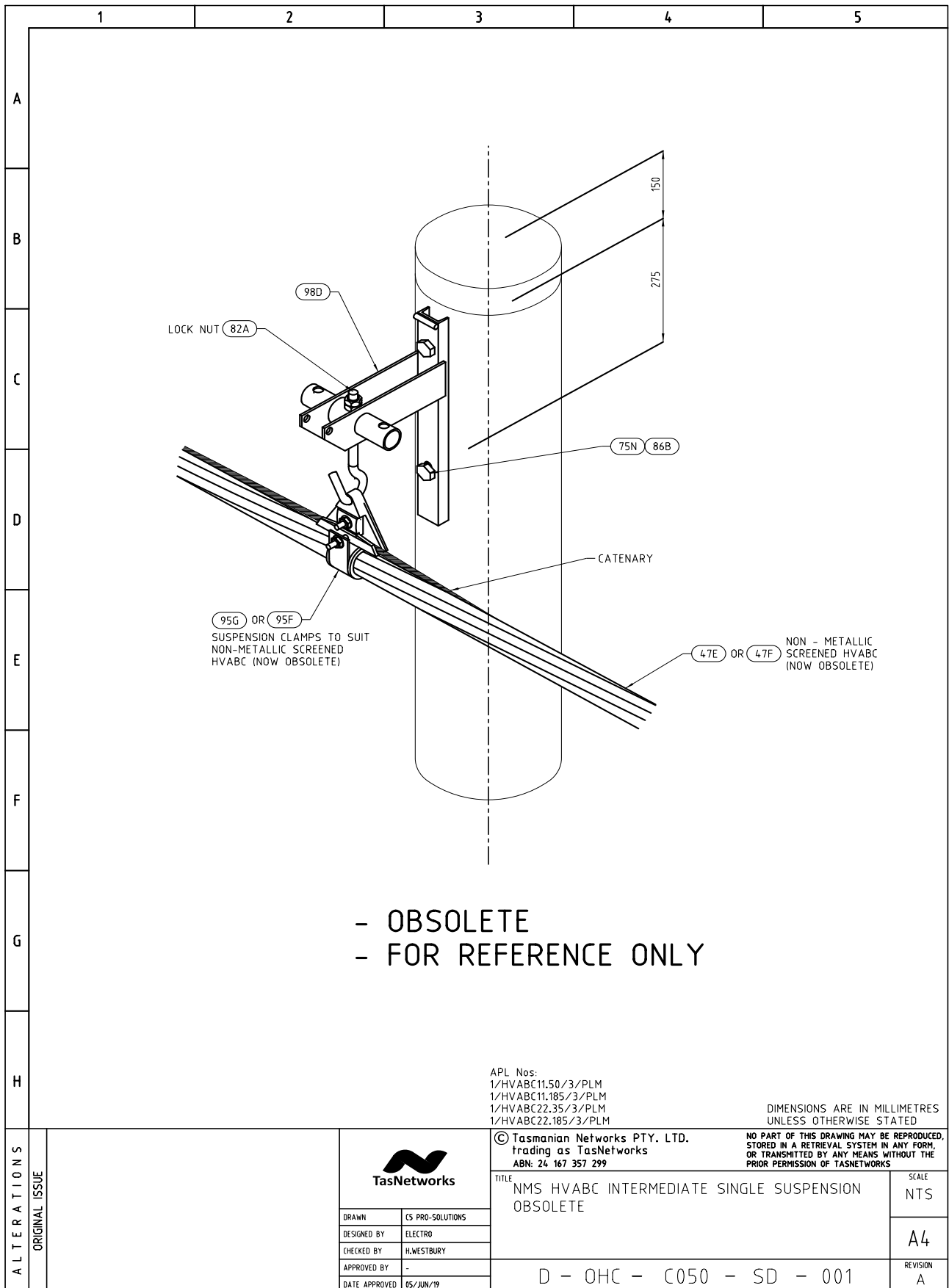
D - OHC - C109 - SD - 005

REVISION A


|               |                |
|---------------|----------------|
| DRAWN         | ELECTRO        |
| DESIGNED BY   | B.HAYBERRY     |
| CHECKED BY    | K.GOSDEN       |
| APPROVED BY   | MICHAEL COOPER |
| DATE APPROVED | FEB 2022       |

# NON-METALLIC SCREENED HVABC (OBOLETE)

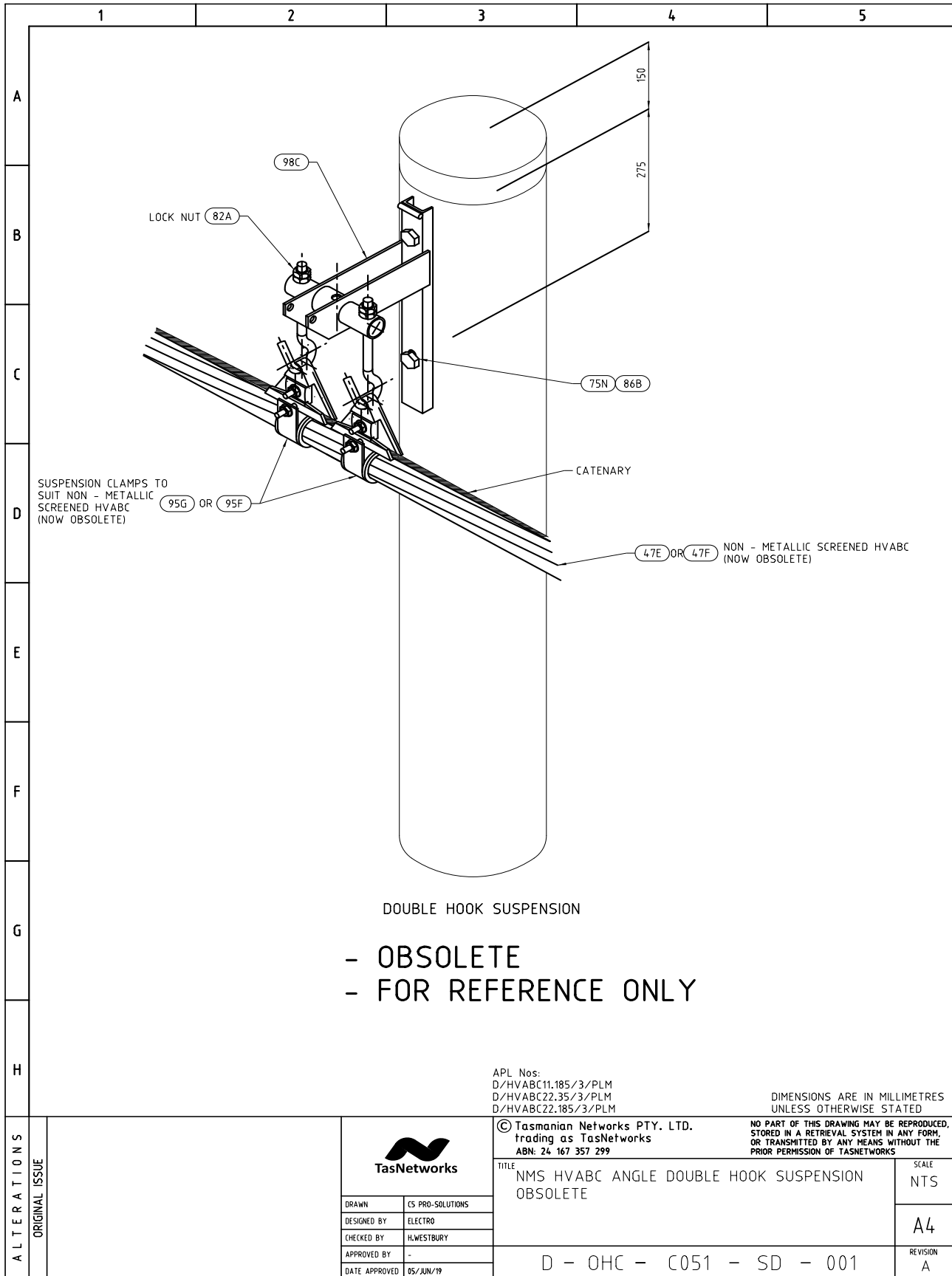
## 3.8 NMS HVABC Intermediate, Single Suspension (Obsolete)




NMS HVABC Intermediate, Single Suspension - Material List (Obsolete)

|  |                  | 1  | 2 | 3  | 4                | 5   |         |              |                |   |            |               |            |   |               |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|--|------------------|--|---|--|------------------|---|---------|--------------|----------------|---|------------|---------------|------------|---|---------------|----------------------|----------|------------|------------------------|----------|--------------------|---|-----|-------|-------------------|---|-----|--------|---|---|-----|--------|------------------------|---|-----|-------|---------|---|-----|-------|---------------|---|-------------------|---|-----|-------|-------------------|---|-----|--------|--|---|-----|--------|------------------------|---|-----|-------|---------|---|-----|-------|---------------|---|--------------------|---|-----|-------|-------------------|---|-----|--------|---|---|-----|--------|------------------------|---|-----|-------|---------|---|-----|-------|---------------|---|---------------------|---|-----|-------|-------------------|---|-----|--------|--|---|-----|--------|------------------------|---|-----|-------|---------|---|-----|-------|---------------|---|
| A  | B                | C  | D | E  | F                | G   |         |              |                |   |            |               |            |   |               |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|  |                  |  |   |  |                  |   | H       |              |                |   |            |               |            |   |               |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|  |                  |  |   |  |                  |   |         | ALTERNATIONS | ORIGINAL ISSUE | <table border="1"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Stock Item Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td rowspan="5">I/HVABC11.50/3/PLM</td> <td rowspan="5">S</td> <td>75N</td> <td>32288</td> <td>Bolt Hex M16 X350</td> <td>2</td> </tr> <tr> <td>95F</td> <td>149113</td> <td>Suspension Clamp 35mm<sup>2</sup> 22kV HVABC</td> <td>1</td> </tr> <tr> <td>98D</td> <td>149119</td> <td>HVABC bracket standard</td> <td>1</td> </tr> <tr> <td>82A</td> <td>40441</td> <td>Nut M16</td> <td>4</td> </tr> <tr> <td>86B</td> <td>65158</td> <td>Washer Els 16</td> <td>2</td> </tr> <tr> <td rowspan="5">I/HVABC11.185/PLM</td> <td rowspan="5">S</td> <td>75N</td> <td>32288</td> <td>Bolt Hex M16 X350</td> <td>2</td> </tr> <tr> <td>95G</td> <td>149114</td> <td>Suspension Clamp 185mm<sup>2</sup> 22kV HVABC</td> <td>1</td> </tr> <tr> <td>98D</td> <td>149119</td> <td>HVABC bracket standard</td> <td>1</td> </tr> <tr> <td>82A</td> <td>40441</td> <td>Nut M16</td> <td>4</td> </tr> <tr> <td>86B</td> <td>65158</td> <td>Washer Els 16</td> <td>2</td> </tr> <tr> <td rowspan="5">I/HVABC22.35/3/PLM</td> <td rowspan="5">S</td> <td>75N</td> <td>32288</td> <td>Bolt Hex M16 X350</td> <td>2</td> </tr> <tr> <td>95F</td> <td>149113</td> <td>Suspension Clamp 35mm<sup>2</sup> 22kV HVABC</td> <td>1</td> </tr> <tr> <td>98D</td> <td>149119</td> <td>HVABC bracket standard</td> <td>1</td> </tr> <tr> <td>82A</td> <td>40441</td> <td>Nut M16</td> <td>4</td> </tr> <tr> <td>86B</td> <td>65158</td> <td>Washer Els 16</td> <td>2</td> </tr> <tr> <td rowspan="5">I/HVABC22.185/3/PLM</td> <td rowspan="5">S</td> <td>75N</td> <td>32288</td> <td>Bolt Hex M16 X350</td> <td>2</td> </tr> <tr> <td>95G</td> <td>149114</td> <td>Suspension Clamp 185mm<sup>2</sup> 22kV HVABC</td> <td>1</td> </tr> <tr> <td>98D</td> <td>149119</td> <td>HVABC bracket standard</td> <td>1</td> </tr> <tr> <td>82A</td> <td>40441</td> <td>Nut M16</td> <td>4</td> </tr> <tr> <td>86B</td> <td>65158</td> <td>Washer Els 16</td> <td>2</td> </tr> </tbody> </table> |            |               |            |   | Unit Assembly | Store Type           | Item Ref | Stock Item | Stock Item Description | Quantity | I/HVABC11.50/3/PLM | S | 75N | 32288 | Bolt Hex M16 X350 | 2 | 95F | 149113 | Suspension Clamp 35mm <sup>2</sup> 22kV HVABC | 1 | 98D | 149119 | HVABC bracket standard | 1 | 82A | 40441 | Nut M16 | 4 | 86B | 65158 | Washer Els 16 | 2 | I/HVABC11.185/PLM | S | 75N | 32288 | Bolt Hex M16 X350 | 2 | 95G | 149114 | Suspension Clamp 185mm <sup>2</sup> 22kV HVABC | 1 | 98D | 149119 | HVABC bracket standard | 1 | 82A | 40441 | Nut M16 | 4 | 86B | 65158 | Washer Els 16 | 2 | I/HVABC22.35/3/PLM | S | 75N | 32288 | Bolt Hex M16 X350 | 2 | 95F | 149113 | Suspension Clamp 35mm <sup>2</sup> 22kV HVABC | 1 | 98D | 149119 | HVABC bracket standard | 1 | 82A | 40441 | Nut M16 | 4 | 86B | 65158 | Washer Els 16 | 2 | I/HVABC22.185/3/PLM | S | 75N | 32288 | Bolt Hex M16 X350 | 2 | 95G | 149114 | Suspension Clamp 185mm <sup>2</sup> 22kV HVABC | 1 | 98D | 149119 | HVABC bracket standard | 1 | 82A | 40441 | Nut M16 | 4 | 86B | 65158 | Washer Els 16 | 2 |
|  |                  |  |   |  |                  |   |         |              |                | Unit Assembly   | Store Type | Item Ref      | Stock Item | Stock Item Description  | Quantity      |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|  |                  |  |   |  |                  |   |         |              |                | I/HVABC11.50/3/PLM  | S          | 75N           | 32288      | Bolt Hex M16 X350   | 2             |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|  |                  |  |   |  |                  |   |         |              |                |   |            | 95F           | 149113     | Suspension Clamp 35mm <sup>2</sup> 22kV HVABC   | 1             |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|  |                  |  |   |  |                  |   |         |              |                |   |            | 98D           | 149119     | HVABC bracket standard  | 1             |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|  |                  |  |   |  |                  |   |         |              |                |   |            | 82A           | 40441      | Nut M16   | 4             |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|  |                  |  |   |  |                  |   |         |              |                |   |            | 86B           | 65158      | Washer Els 16   | 2             |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|  |                  |  |   |  |                  |   |         |              |                | I/HVABC11.185/PLM   | S          | 75N           | 32288      | Bolt Hex M16 X350   | 2             |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|  |                  |  |   |  |                  |   |         |              |                |   |            | 95G           | 149114     | Suspension Clamp 185mm <sup>2</sup> 22kV HVABC  | 1             |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|  |                  |  |   |  |                  |   |         |              |                |   |            | 98D           | 149119     | HVABC bracket standard  | 1             |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|  |                  |  |   |  |                  |   |         |              |                |   |            | 82A           | 40441      | Nut M16   | 4             |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|  |                  |  |   |  |                  |   |         |              |                |   |            | 86B           | 65158      | Washer Els 16   | 2             |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|  |                  |  |   |  |                  |   |         |              |                | I/HVABC22.35/3/PLM  | S          | 75N           | 32288      | Bolt Hex M16 X350   | 2             |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|  |                  |  |   |  |                  |   |         |              |                |   |            | 95F           | 149113     | Suspension Clamp 35mm <sup>2</sup> 22kV HVABC   | 1             |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|  |                  |  |   |  |                  |   |         |              |                |   |            | 98D           | 149119     | HVABC bracket standard  | 1             |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|  |                  |  |   |  |                  |   |         |              |                |   |            | 82A           | 40441      | Nut M16   | 4             |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|  |                  |  |   |  |                  |   |         |              |                |   |            | 86B           | 65158      | Washer Els 16   | 2             |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|  |                  |  |   |  |                  |   |         |              |                | I/HVABC22.185/3/PLM   | S          | 75N           | 32288      | Bolt Hex M16 X350   | 2             |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
| 95G  | 149114           | Suspension Clamp 185mm <sup>2</sup> 22kV HVABC   | 1 |  |                  |   |         |              |                |   |            |               |            |   |               |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
| 98D  | 149119           | HVABC bracket standard   | 1 |  |                  |   |         |              |                |   |            |               |            |   |               |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
| 82A  | 40441            | Nut M16  | 4 |  |                  |   |         |              |                |   |            |               |            |   |               |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
| 86B  | 65158            | Washer Els 16  | 2 |  |                  |   |         |              |                |   |            |               |            |   |               |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
| <p>- OBSOLETE<br/>- FOR REFERENCE ONLY</p>                       |                  |  |   |  |                  |   |         |              |                |   |            |               |            |   |               |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
| <p>DIMENSIONS ARE IN MILLIMETRES<br/>UNLESS OTHERWISE STATED</p> |                  |  |   |  |                  |   |         |              |                |   |            |               |            |   |               |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|  |                  |   |   | <p>© Tasmanian Networks PTY. LTD.<br/>trading as TasNetworks<br/>ABN: 24 167 357 299</p> |                  | <p>NO PART OF THIS DRAWING MAY BE REPRODUCED,<br/>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br/>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br/>PRIOR PERMISSION OF TASNETWORKS</p> |         |              |                |   |            |               |            |   |               |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|  |                  | <table border="1"> <tr> <td>DRAWN</td> <td>CS PRO-SOLUTIONS</td> </tr> <tr> <td>DESIGNED BY</td> <td>ELECTRO</td> </tr> <tr> <td>CHECKED BY</td> <td>H.WESTBURY</td> </tr> <tr> <td>APPROVED BY</td> <td></td> </tr> <tr> <td>DATE APPROVED</td> <td>27/MAY/19</td> </tr> </table> |   | DRAWN  | CS PRO-SOLUTIONS | DESIGNED BY   | ELECTRO | CHECKED BY   | H.WESTBURY     | APPROVED BY   |            | DATE APPROVED | 27/MAY/19  | <p>TITLE<br/>NMS HVABC INTERMEDIATE SINGLE SUSPENSION<br/>MATERIALS LIST<br/>OBSOLETE</p> |               | <p>SCALE<br/>NTS</p> |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
| DRAWN  | CS PRO-SOLUTIONS |  |   |  |                  |   |         |              |                |   |            |               |            |   |               |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
| DESIGNED BY  | ELECTRO          |  |   |  |                  |   |         |              |                |   |            |               |            |   |               |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
| CHECKED BY   | H.WESTBURY       |  |   |  |                  |   |         |              |                |   |            |               |            |   |               |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
| APPROVED BY  |                  |  |   |  |                  |   |         |              |                |   |            |               |            |   |               |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
| DATE APPROVED  | 27/MAY/19        |  |   |  |                  |   |         |              |                |   |            |               |            |   |               |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|  |                  |  |   | <p>D - OHC - C050 - SD - 002</p>   |                  | <p>REVISION<br/>A</p>   |         |              |                |   |            |               |            |   |               |                      |          |            |                        |          |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                   |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                   |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                   |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |

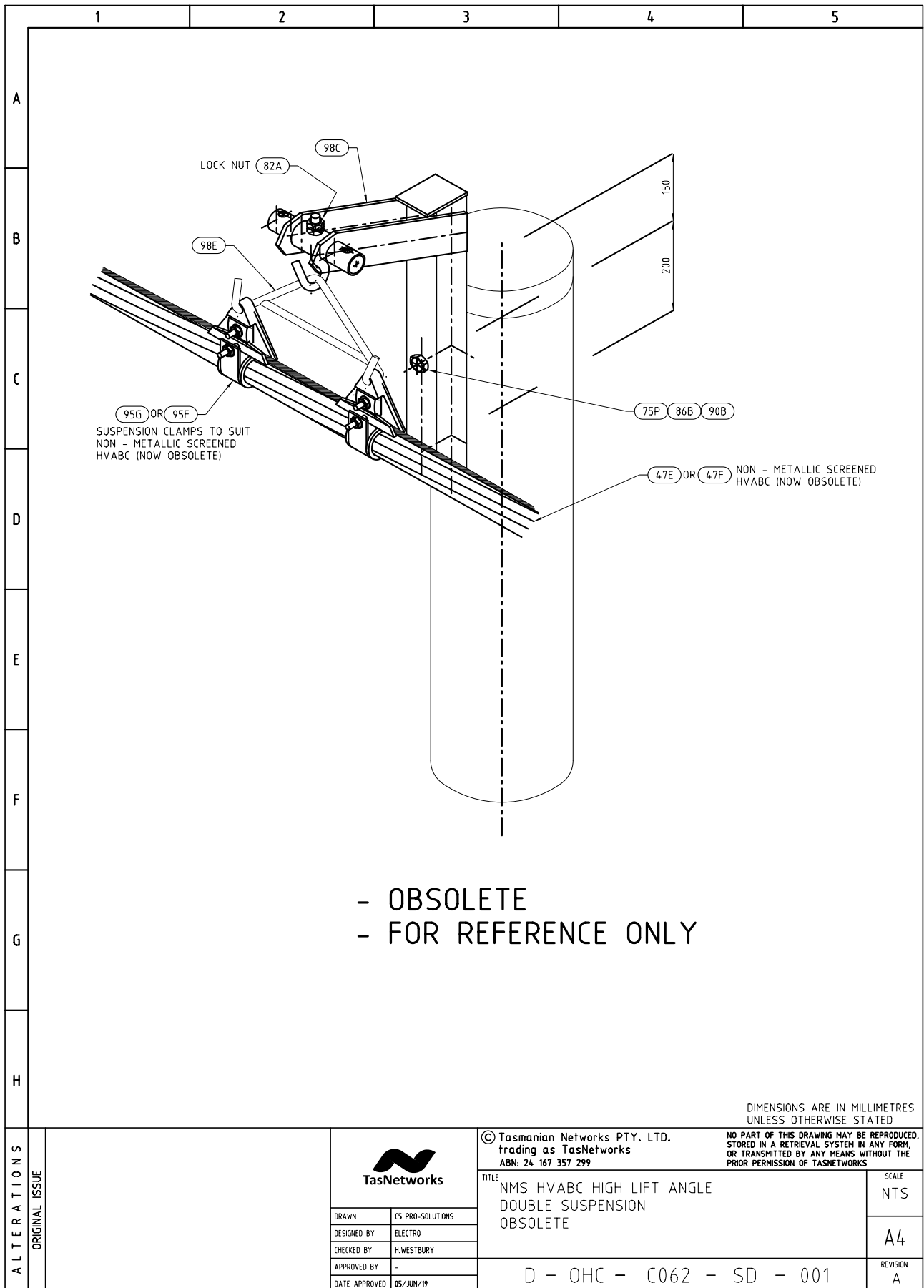
### 3.9 NMS HVABC Angle, Double Suspension (Obsolete)



NMS HVABC Angle, Double Suspension – Material List (Obsolete)

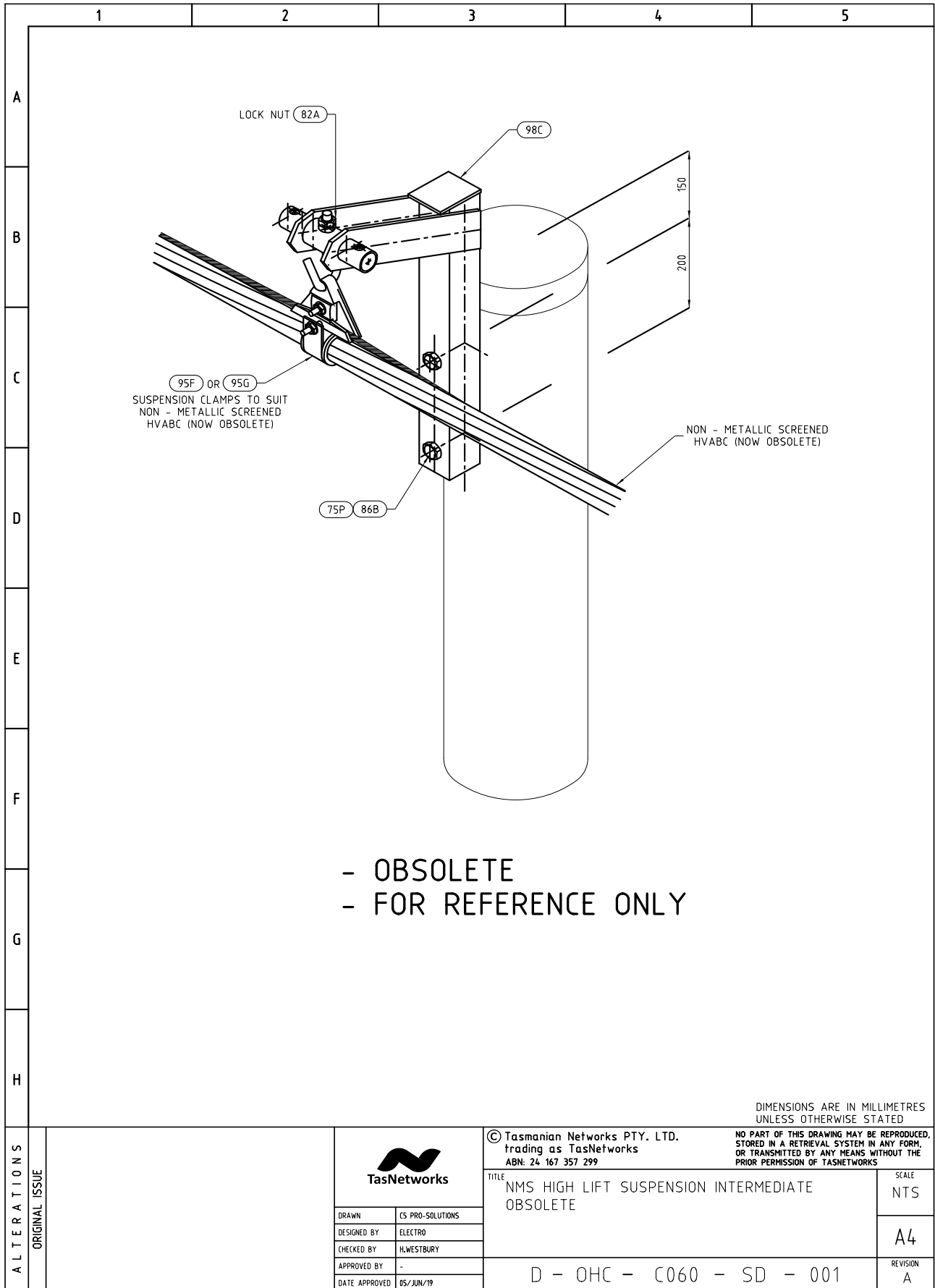
|                     | 1   | 2   | 3                | 4   | 5 |   |            |              |  |                        |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|---------------------|---|---|------------------|---|---|---|------------|--------------|--|------------------------|----------|-------------------|---|-----|-------|--------------------|---|-----|--------|--|---|-----|--------|------------------------|---|-----|-------|---------|---|-----|-------|---------------|---|--------------------|---|-----|-------|--------------------|---|-----|--------|---|---|-----|--------|------------------------|---|-----|-------|---------|---|-----|-------|---------------|---|---------------------|---|-----|-------|--------------------|---|-----|--------|--|---|-----|--------|------------------------|---|-----|-------|---------|---|-----|-------|---------------|---|
| A                   | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Unit Assembly</th> <th style="width: 5%;">Store Type</th> <th style="width: 10%;">Item Ref</th> <th style="width: 10%;">Stock Item</th> <th style="width: 40%;">Stock Item Description</th> <th style="width: 10%;">Quantity</th> </tr> </thead> <tbody> <tr> <td rowspan="5">D/HVABC11.185/PLM</td> <td rowspan="5">S</td> <td>75N</td> <td>32288</td> <td>Bolt Hex M16 X 350</td> <td>2</td> </tr> <tr> <td>95G</td> <td>149114</td> <td>Suspension Clamp 185mm<sup>2</sup> 22kV HVABC</td> <td>2</td> </tr> <tr> <td>98D</td> <td>149119</td> <td>HVABC bracket standard</td> <td>1</td> </tr> <tr> <td>82A</td> <td>40441</td> <td>Nut M16</td> <td>8</td> </tr> <tr> <td>86B</td> <td>65158</td> <td>Washer Els 16</td> <td>2</td> </tr> <tr> <td rowspan="5">D/HVABC22.35/3/PLM</td> <td rowspan="5">S</td> <td>75N</td> <td>32288</td> <td>Bolt Hex M16 X 350</td> <td>2</td> </tr> <tr> <td>95F</td> <td>149113</td> <td>Suspension Clamp 35mm<sup>2</sup> 22kV HVABC</td> <td>2</td> </tr> <tr> <td>98D</td> <td>149119</td> <td>HVABC bracket standard</td> <td>1</td> </tr> <tr> <td>82A</td> <td>40441</td> <td>Nut M16</td> <td>8</td> </tr> <tr> <td>86B</td> <td>65158</td> <td>Washer Els 16</td> <td>2</td> </tr> <tr> <td rowspan="5">D/HVABC22.185/3/PLM</td> <td rowspan="5">S</td> <td>75N</td> <td>32288</td> <td>Bolt Hex M16 X 350</td> <td>2</td> </tr> <tr> <td>95G</td> <td>149114</td> <td>Suspension Clamp 185mm<sup>2</sup> 22kV HVABC</td> <td>2</td> </tr> <tr> <td>98D</td> <td>149119</td> <td>HVABC bracket standard</td> <td>1</td> </tr> <tr> <td>82A</td> <td>40441</td> <td>Nut M16</td> <td>8</td> </tr> <tr> <td>86B</td> <td>65158</td> <td>Washer Els 16</td> <td>2</td> </tr> </tbody> </table> |   |                  |   |   | Unit Assembly   | Store Type | Item Ref     | Stock Item                                     | Stock Item Description | Quantity | D/HVABC11.185/PLM | S | 75N | 32288 | Bolt Hex M16 X 350 | 2 | 95G | 149114 | Suspension Clamp 185mm <sup>2</sup> 22kV HVABC | 2 | 98D | 149119 | HVABC bracket standard | 1 | 82A | 40441 | Nut M16 | 8 | 86B | 65158 | Washer Els 16 | 2 | D/HVABC22.35/3/PLM | S | 75N | 32288 | Bolt Hex M16 X 350 | 2 | 95F | 149113 | Suspension Clamp 35mm <sup>2</sup> 22kV HVABC | 2 | 98D | 149119 | HVABC bracket standard | 1 | 82A | 40441 | Nut M16 | 8 | 86B | 65158 | Washer Els 16 | 2 | D/HVABC22.185/3/PLM | S | 75N | 32288 | Bolt Hex M16 X 350 | 2 | 95G | 149114 | Suspension Clamp 185mm <sup>2</sup> 22kV HVABC | 2 | 98D | 149119 | HVABC bracket standard | 1 | 82A | 40441 | Nut M16 | 8 | 86B | 65158 | Washer Els 16 | 2 |
| Unit Assembly       |   |   |                  |   |   | Store Type  | Item Ref   | Stock Item   | Stock Item Description                         | Quantity               |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
| D/HVABC11.185/PLM   |   |   |                  |   |   | S   | 75N        | 32288        | Bolt Hex M16 X 350                             | 2                      |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|                     |   |   |                  |   |   |   | 95G        | 149114       | Suspension Clamp 185mm <sup>2</sup> 22kV HVABC | 2                      |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|                     |   |   |                  |   |   |   | 98D        | 149119       | HVABC bracket standard                         | 1                      |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|                     |   |   |                  |   |   |   | 82A        | 40441        | Nut M16  | 8                      |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|                     |   |   |                  |   |   |   | 86B        | 65158        | Washer Els 16                                  | 2                      |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
| D/HVABC22.35/3/PLM  |   |   |                  |   |   | S   | 75N        | 32288        | Bolt Hex M16 X 350                             | 2                      |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|                     |   |   |                  |   |   |   | 95F        | 149113       | Suspension Clamp 35mm <sup>2</sup> 22kV HVABC  | 2                      |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|                     |   |   |                  |   |   |   | 98D        | 149119       | HVABC bracket standard                         | 1                      |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|                     |   |   |                  |   |   |   | 82A        | 40441        | Nut M16  | 8                      |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|                     |   |   |                  |   |   |   | 86B        | 65158        | Washer Els 16                                  | 2                      |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
| D/HVABC22.185/3/PLM |   |   |                  |   |   | S   | 75N        | 32288        | Bolt Hex M16 X 350                             | 2                      |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|                     |   |   |                  |   |   |   | 95G        | 149114       | Suspension Clamp 185mm <sup>2</sup> 22kV HVABC | 2                      |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|                     |   |   |                  |   |   |   | 98D        | 149119       | HVABC bracket standard                         | 1                      |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|                     |   |   |                  |   |   |   | 82A        | 40441        | Nut M16  | 8                      |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|                     |   |   |                  |   |   |   | 86B        | 65158        | Washer Els 16                                  | 2                      |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
| B                   |   |   |                  |   |   |   |            |              |  |                        |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
| C                   |   |   |                  |   |   |   |            |              |  |                        |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
| D                   |   |   |                  |   |   |   |            |              |  |                        |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
| E                   | <p>- OBSOLETE<br/>- FOR REFERENCE ONLY</p>  |   |                  |   |   |   |            |              |  |                        |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
| F                   |   |   |                  |   |   |   |            |              |  |                        |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
| G                   |   |   |                  |   |   |   |            |              |  |                        |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
| H                   |   |   |                  |   |   |   |            |              |  |                        |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
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|                     |   | DESIGNED BY   | ELECTRO          |   |   | TITLE<br>NMS HVABC ANGLE DOUBLE HOOK SUSPENSION<br>MATERIALS LIST<br>OBSOLETE |            |              |  |                        |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|                     |   | CHECKED BY  | H.WESTBURY       |   |   |   |            | SCALE<br>NTS |  |                        |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|                     |   | APPROVED BY   | DATE APPROVED    |   |   | A4  |            |              |  |                        |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|                     |   |   | 27/MAY/19        | D - OHC - C051 - SD - 002   |   |   |            |              |  |                        |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |
|                     |   |   |                  | REVISION<br>A   |   |   |            |              |  |                        |          |                   |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |                    |   |     |       |                    |   |     |        |   |   |     |        |                        |   |     |       |         |   |     |       |               |   |                     |   |     |       |                    |   |     |        |  |   |     |        |                        |   |     |       |         |   |     |       |               |   |

### 3.10 NMS HVABC Angle, High Lift, Double Suspension (Obsolete)

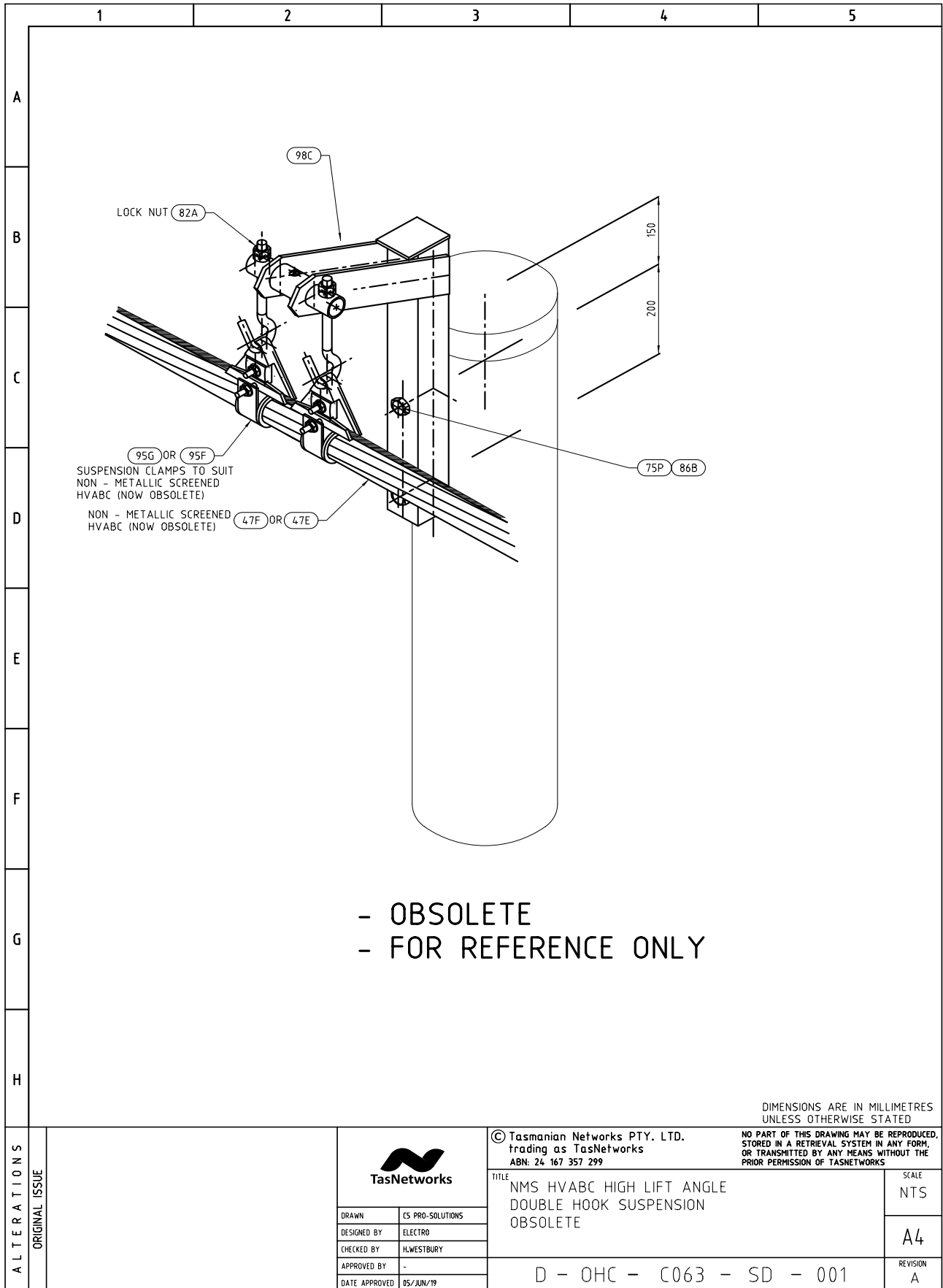




### 3.11 NMS HVABC Angle, High Lift, Single Hook Suspension (Obsolete)



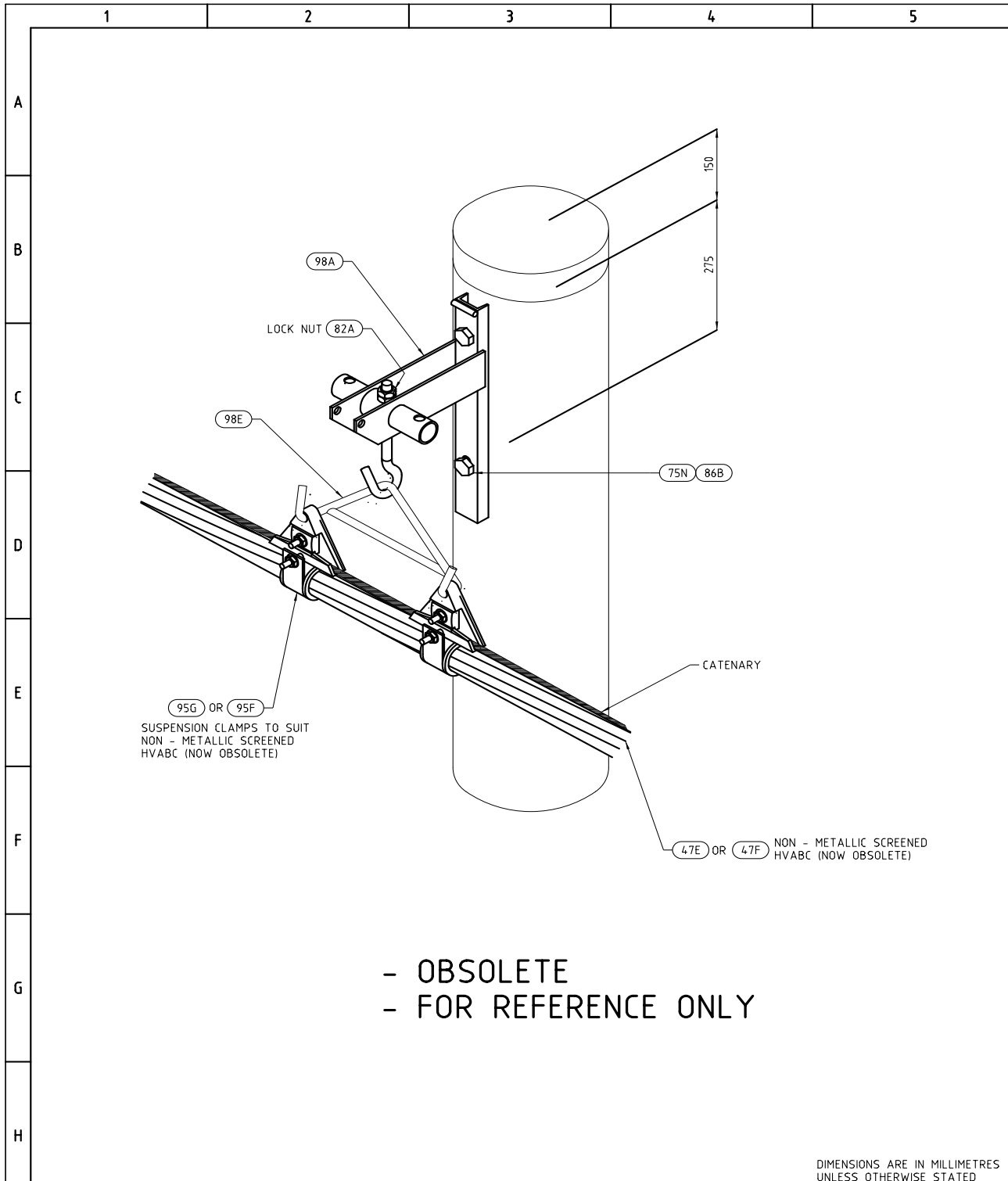
### 3.12 NMS HVABC Angle, High Lift, Double Hook Suspension (Obsolete)




DIMENSIONS ARE IN MILLIMETRES  
UNLESS OTHERWISE STATED

|               |                |  |                  |   |  |   |  |               |  |
|---------------|----------------|--|------------------|---|--|---|--|---------------|--|
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|               |                | TITLE<br>NMS HVABC HIGH LIFT ANGLE<br>DOUBLE HOOK SUSPENSION<br>OBSOLETE |                  |   |  |   |  | SCALE<br>NTS  |  |
|               |                | DRAWN  | CS PRO-SOLUTIONS |   |  |   |  |               |  |
|               |                | DESIGNED BY  | ELECTRO          |   |  |   |  |               |  |
|               |                | CHECKED BY   | H.WESTBURY       |   |  |   |  |               |  |
| APPROVED BY   | -              |  |                  |   |  |   |  |               |  |
| DATE APPROVED | 05/JUN/19      | D - OHC - C063 - SD - 001  |                  |   |  |   |  | REVISION<br>A |  |

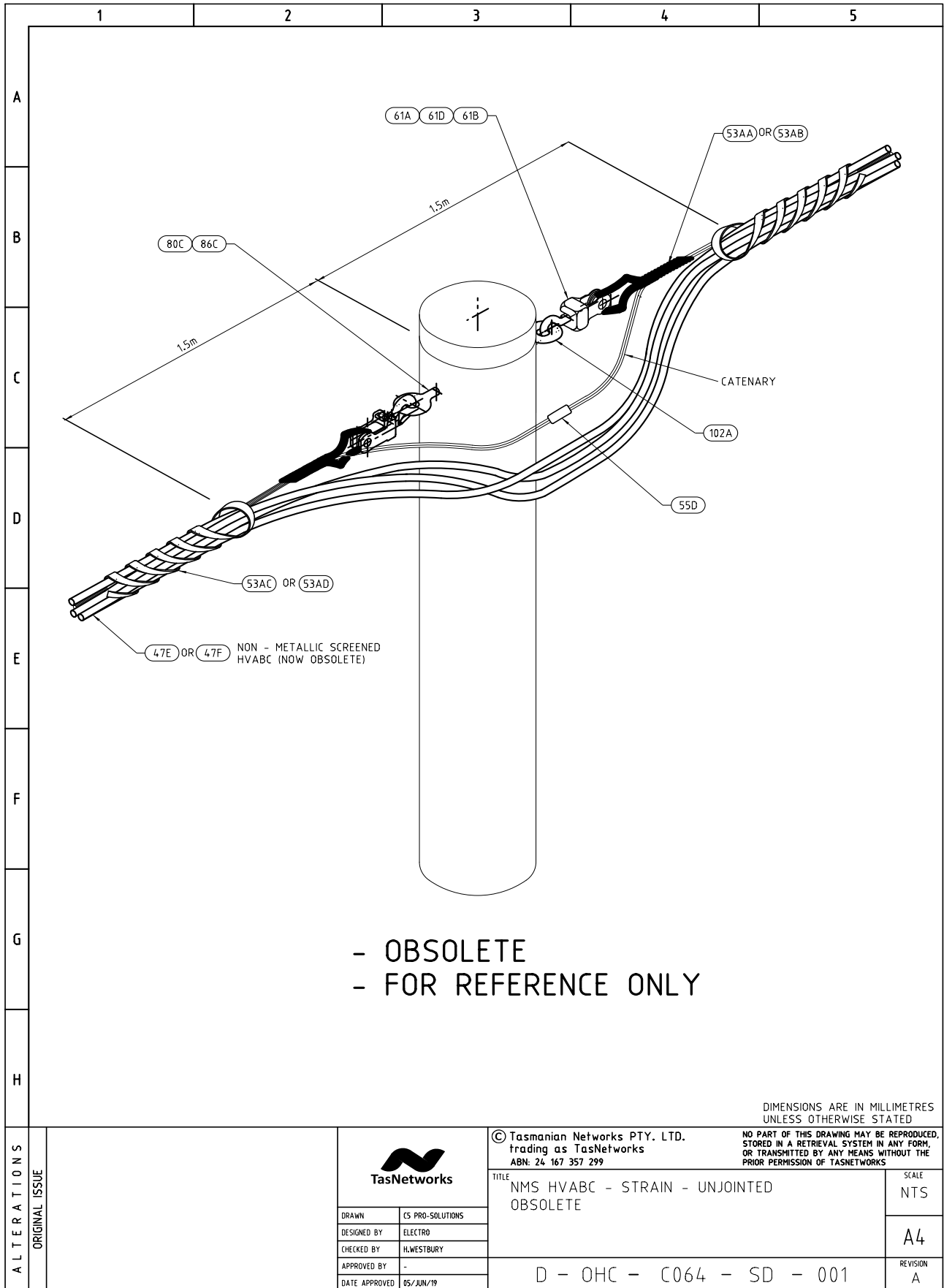
### 3.13 NMS HVABC Angle, High Lift, Double Suspension (Obsolete)



- OBSOLETE  
- FOR REFERENCE ONLY

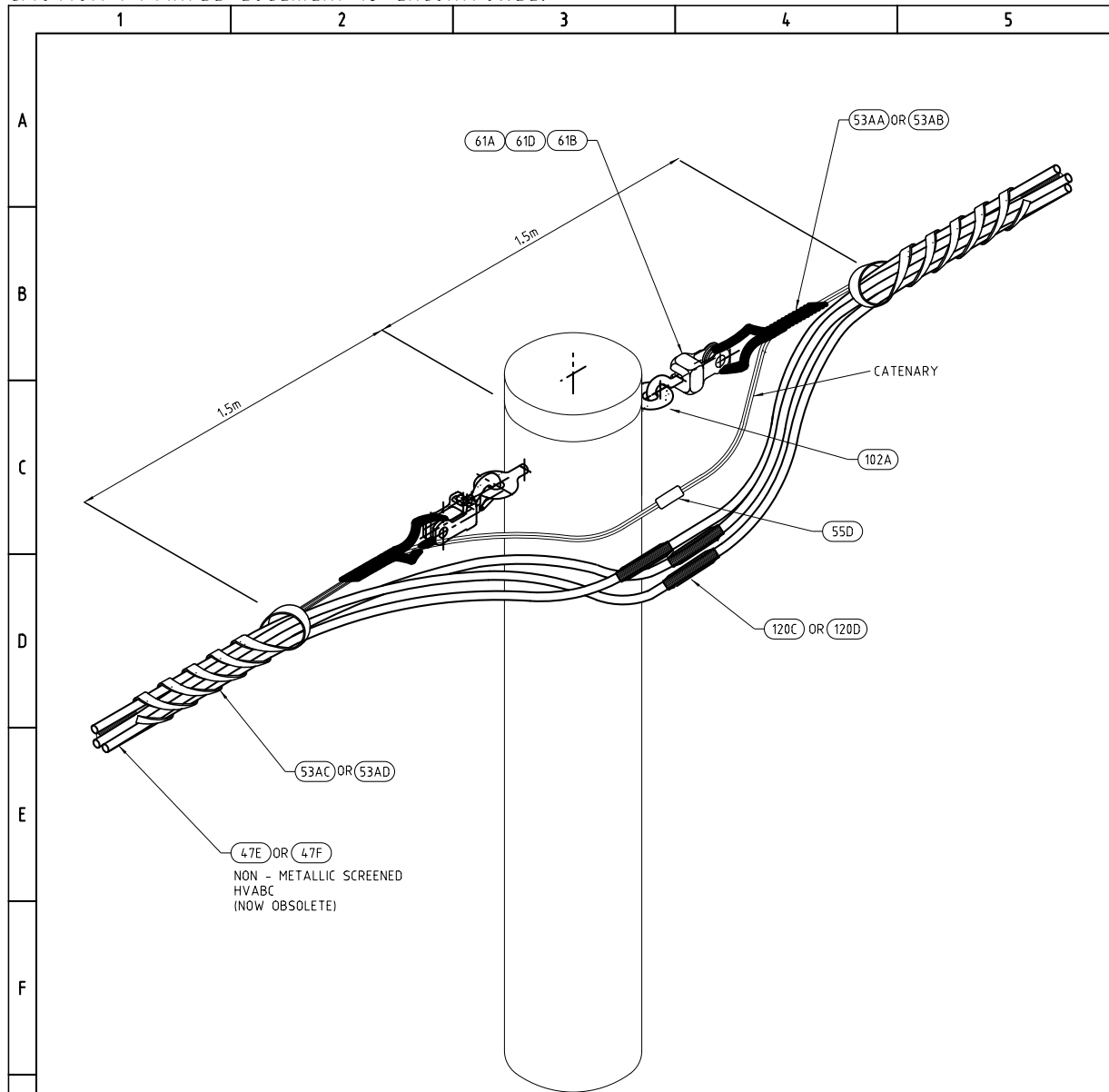
|             |                |   |                            |   |   |               |
|-------------|----------------|---|----------------------------|---|---|---------------|
| ALTERATIONS | ORIGINAL ISSUE |  |                            | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299 | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNETWORKS |               |
|             |                | TITLE<br>NMS HVABC ANGLE DOUBLE SUSPENSION<br>OBSOLETE                              |                            |   | SCALE<br>NTS  |               |
|             |                | DRAWN<br>CS PRO-SOLUTIONS   | DESIGNED BY<br>ELECTRO     | CHECKED BY<br>H.WESTBURY  |   | A4            |
|             |                | APPROVED BY<br>-  | DATE APPROVED<br>05/JUN/19 | D - OHC - C061 - SD - 001   |   | REVISION<br>A |

### 3.14 NMS HVABC Strain, Unjointed (Obsolete)



### 3.15 NMS HVABC Strain, Jointed (Obsolete)

**CAUTION : Printed document is uncontrolled.**



- OBSOLETE  
- FOR REFERENCE ONLY

EMF/PDF CREATION DATE 05/JUN/19


BM DWG NO D - OHC - C052 - SD - 001 BM REV A

|                               |  |                         |   |  |   |  |               |
|-------------------------------|--|-------------------------|---|--|---|--|---------------|
| ALTERATIONS<br>ORIGINAL ISSUE |  |                         | APL Nos:<br>SJ/HVABC22.185/3  |  | DIMENSIONS ARE IN MILLIMETRES<br>UNLESS OTHERWISE STATED  |  |               |
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|                               |  |                         | TITLE<br>NMS HVABC STRAIN JOINTED<br>OBSOLETE                                   |  |   |  | SCALE<br>NTS  |
|                               |  |                         | DRAWN CS PRO-SOLUTIONS  |  |   |  | A4            |
|                               |  |                         | DESIGNED BY ELECTRO   |  |   |  | REVISION<br>A |
|                               |  | CHECKED BY HLWESTBURY   |   |  |   |  |               |
|                               |  | APPROVED BY -           |   |  |   |  |               |
|                               |  | DATE APPROVED 05/JUN/19 |   |  |   |  |               |

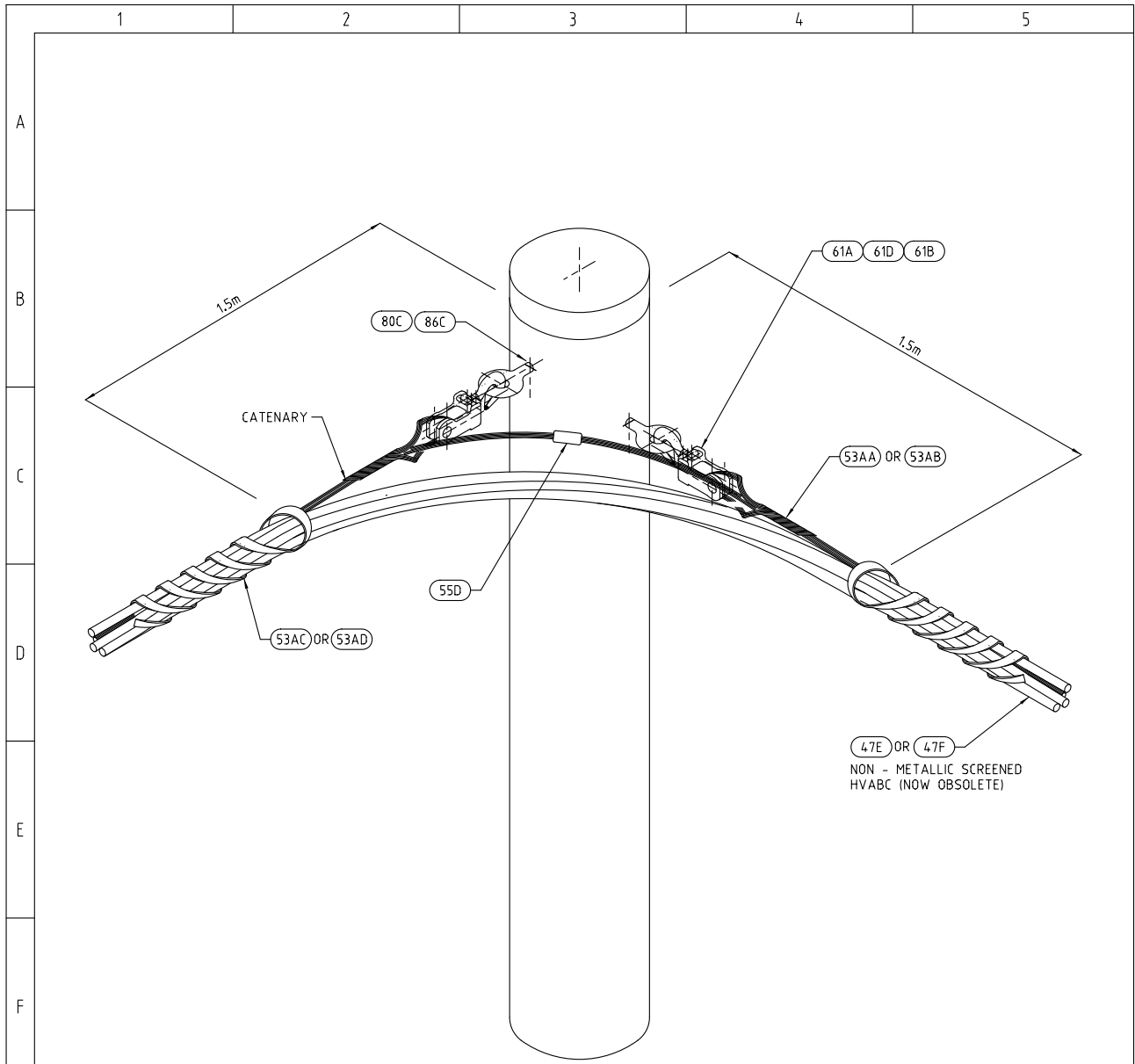
DWG STATUS CONSTRUCTION

D - OHC - C052 - SD - 001

NMS HVABC Strain, Jointed - Material List (Obsolete)

|                      | 1  | 2  | 3          | 4   | 5        |               |            |          |            |                        |          |                  |   |      |        |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|----------------------|--|--|------------|---|----------|---------------|------------|----------|------------|------------------------|----------|------------------|---|------|--------|---------------------|---|------|--------|--|---|------|--------|--|---|------|--------|---|---|-----|--------|---------------------------------------|---|-----|--------|------------------------|---|-----|--------|-------------------------|---|-----|--------|---------------|---|-----|-------|--------------------|---|-----|-------|---------------|---|
| A                    | <table border="1"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Stock Item Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td rowspan="10">SJ/HVABC22.185/3</td> <td rowspan="10">S</td> <td>102A</td> <td>325842</td> <td>Thimble Eye Nut M20</td> <td>1</td> </tr> <tr> <td>120C</td> <td>149115</td> <td>Joint Kit 35/185mm<sup>2</sup> 22kV HVABC</td> <td>1</td> </tr> <tr> <td>53AB</td> <td>149112</td> <td>Cond Term Hel 19/3.65 catenary for 150/185 HVABC</td> <td>2</td> </tr> <tr> <td>53AD</td> <td>149121</td> <td>Bundled restraint 185mm<sup>2</sup> 22kV HVABC</td> <td>2</td> </tr> <tr> <td>55D</td> <td>144950</td> <td>Parallel groove clamp (7.0-16.3mm Al)</td> <td>1</td> </tr> <tr> <td>61A</td> <td>322056</td> <td>Ball Clevis &amp; Pin 16mm</td> <td>2</td> </tr> <tr> <td>61B</td> <td>322386</td> <td>Socket Termination 16mm</td> <td>2</td> </tr> <tr> <td>61D</td> <td>322090</td> <td>Kink Pin 16mm</td> <td>2</td> </tr> <tr> <td>80C</td> <td>37260</td> <td>Bolt Eye M20 X 325</td> <td>1</td> </tr> <tr> <td>86C</td> <td>65159</td> <td>Washer Els 20</td> <td>1</td> </tr> </tbody> </table> |  |            |   |          | Unit Assembly | Store Type | Item Ref | Stock Item | Stock Item Description | Quantity | SJ/HVABC22.185/3 | S | 102A | 325842 | Thimble Eye Nut M20 | 1 | 120C | 149115 | Joint Kit 35/185mm <sup>2</sup> 22kV HVABC | 1 | 53AB | 149112 | Cond Term Hel 19/3.65 catenary for 150/185 HVABC | 2 | 53AD | 149121 | Bundled restraint 185mm <sup>2</sup> 22kV HVABC | 2 | 55D | 144950 | Parallel groove clamp (7.0-16.3mm Al) | 1 | 61A | 322056 | Ball Clevis & Pin 16mm | 2 | 61B | 322386 | Socket Termination 16mm | 2 | 61D | 322090 | Kink Pin 16mm | 2 | 80C | 37260 | Bolt Eye M20 X 325 | 1 | 86C | 65159 | Washer Els 20 | 1 |
| Unit Assembly        | Store Type   | Item Ref   | Stock Item | Stock Item Description  | Quantity |               |            |          |            |                        |          |                  |   |      |        |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
| SJ/HVABC22.185/3     | S  | 102A   | 325842     | Thimble Eye Nut M20   | 1        |               |            |          |            |                        |          |                  |   |      |        |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 120C   | 149115     | Joint Kit 35/185mm <sup>2</sup> 22kV HVABC                                      | 1        |               |            |          |            |                        |          |                  |   |      |        |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 53AB   | 149112     | Cond Term Hel 19/3.65 catenary for 150/185 HVABC                                | 2        |               |            |          |            |                        |          |                  |   |      |        |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 53AD   | 149121     | Bundled restraint 185mm <sup>2</sup> 22kV HVABC                                 | 2        |               |            |          |            |                        |          |                  |   |      |        |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 55D  | 144950     | Parallel groove clamp (7.0-16.3mm Al)   | 1        |               |            |          |            |                        |          |                  |   |      |        |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 61A  | 322056     | Ball Clevis & Pin 16mm  | 2        |               |            |          |            |                        |          |                  |   |      |        |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 61B  | 322386     | Socket Termination 16mm   | 2        |               |            |          |            |                        |          |                  |   |      |        |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 61D  | 322090     | Kink Pin 16mm   | 2        |               |            |          |            |                        |          |                  |   |      |        |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 80C  | 37260      | Bolt Eye M20 X 325  | 1        |               |            |          |            |                        |          |                  |   |      |        |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 86C  | 65159      | Washer Els 20   | 1        |               |            |          |            |                        |          |                  |   |      |        |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
| B                    |  |  |            |   |          |               |            |          |            |                        |          |                  |   |      |        |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
| C                    |  |  |            |   |          |               |            |          |            |                        |          |                  |   |      |        |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
| D                    | <p>- OBSOLETE<br/>- FOR REFERENCE ONLY</p>   |  |            |   |          |               |            |          |            |                        |          |                  |   |      |        |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
| E                    |  |  |            |   |          |               |            |          |            |                        |          |                  |   |      |        |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
| F                    |  |  |            |   |          |               |            |          |            |                        |          |                  |   |      |        |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
| G                    |  |  |            |   |          |               |            |          |            |                        |          |                  |   |      |        |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
| H                    |  |  |            |   |          |               |            |          |            |                        |          |                  |   |      |        |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
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|                      |  | TITLE<br>NMS HVABC STRAIN JOINTS<br>MATERIALS LIST<br>OBSOLETE   |            |   |          | A4            |            |          |            |                        |          |                  |   |      |        |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | DRAWN CS PRO-SOLUTIONS<br>DESIGNED BY ELECTRO<br>CHECKED BY H.WESTBURY<br>APPROVED BY<br>DATE APPROVED 27/MAY/19   |            |   |          | REVISION<br>A |            |          |            |                        |          |                  |   |      |        |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | D - OHC - C052 - SD - 002  |            |   |          |               |            |          |            |                        |          |                  |   |      |        |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |


### 3.16 NMS HVABC Right Angle Strain, Unjointed




- OBSOLETE  
- FOR REFERENCE ONLY

APL Nos:  
RS/HVABC11.185/PLM  
RS/HVABC22.35/3/PLM  
RS/HVABC22.185/3/PLM

DIMENSIONS ARE IN MILLIMETRES  
UNLESS OTHERWISE STATED

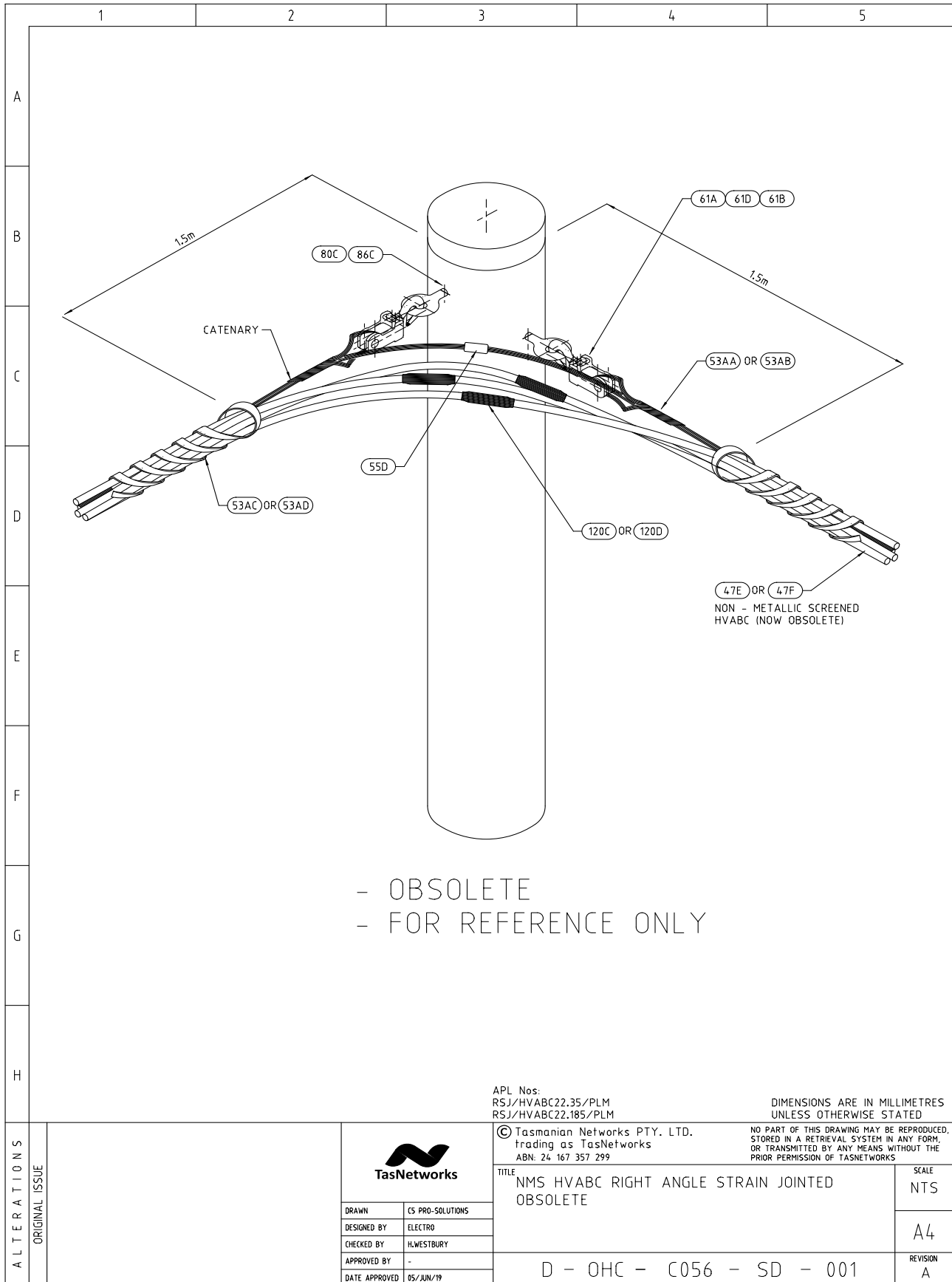
|               |                |   |                  |   |   |  |
|---------------|----------------|---|------------------|---|---|--|
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|               |                | TITLE<br>NMS HVABC RIGHT ANGLE STRAIN UNJOINTED<br>OBSOLETE                         |                  |   | SCALE<br>NTS  |  |
|               |                | DRAWN   | CS PRO-SOLUTIONS |   |   |  |
|               |                | DESIGNED BY   | ELECTRO          |   |   |  |
|               |                | CHECKED BY  | H.WESTBURY       |   |   |  |
| APPROVED BY   | -              |   |                  |   |   |  |
| DATE APPROVED | 05/JUN/19      | D - OHC - C055 - SD - 001   |                  |   | REVISION<br>A   |  |

NMS HVABC Right Angle Strain, Unjointed - Material List (Obsolete)


|                      | 1  | 2  | 3                         | 4   | 5   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|----------------------|--|--|---------------------------|---|---|---------------|------------|----------|------------|------------------------|----------|--------------------|---|------|--------|--|---|------|--------|---|---|-----|--------|---------------------------------------|---|-----|--------|------------------------|---|-----|--------|-------------------------|---|-----|--------|---------------|---|-----|-------|--------------------|---|-----|-------|---------------|---|----------------------|---|------|--------|--|---|------|--------|---|---|-----|--------|---------------------------------------|---|-----|--------|------------------------|---|-----|--------|-------------------------|---|-----|--------|---------------|---|-----|-------|--------------------|---|-----|-------|---------------|---|---------------------|---|------|--------|--|---|------|--------|--|---|-----|--------|---------------------------------------|---|-----|--------|------------------------|---|-----|--------|-------------------------|---|-----|--------|---------------|---|-----|-------|--------------------|---|-----|-------|---------------|---|
| A                    | <table border="1"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Stock Item Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td rowspan="8">RS/HVABC11.185/PLM</td> <td rowspan="8">S</td> <td>53AB</td> <td>149112</td> <td>Cond Term Hel 19/3.65 catenary for 150/185 HVABC</td> <td>2</td> </tr> <tr> <td>53AD</td> <td>149121</td> <td>Bundled restraint 185mm<sup>2</sup> 22kV HVABC</td> <td>2</td> </tr> <tr> <td>55D</td> <td>144950</td> <td>Parallel groove clamp (7.0-16.3mm Al)</td> <td>1</td> </tr> <tr> <td>61A</td> <td>322056</td> <td>Ball Clevis &amp; Pin 16mm</td> <td>2</td> </tr> <tr> <td>61B</td> <td>322386</td> <td>Socket Termination 16mm</td> <td>2</td> </tr> <tr> <td>61D</td> <td>322090</td> <td>Kink Pin 16mm</td> <td>2</td> </tr> <tr> <td>80C</td> <td>37260</td> <td>Bolt Eye M20 X 325</td> <td>2</td> </tr> <tr> <td>86C</td> <td>65159</td> <td>Washer Els 20</td> <td>2</td> </tr> <tr> <td rowspan="8">RS/HVABC22.185/3/PLM</td> <td rowspan="8">S</td> <td>53AB</td> <td>149112</td> <td>Cond Term Hel 19/3.65 catenary for 150/185 HVABC</td> <td>2</td> </tr> <tr> <td>53AD</td> <td>149121</td> <td>Bundled restraint 185mm<sup>2</sup> 22kV HVABC</td> <td>2</td> </tr> <tr> <td>55D</td> <td>144950</td> <td>Parallel groove clamp (7.0-16.3mm Al)</td> <td>1</td> </tr> <tr> <td>61A</td> <td>322056</td> <td>Ball Clevis &amp; Pin 16mm</td> <td>2</td> </tr> <tr> <td>61B</td> <td>322386</td> <td>Socket Termination 16mm</td> <td>2</td> </tr> <tr> <td>61D</td> <td>322090</td> <td>Kink Pin 16mm</td> <td>2</td> </tr> <tr> <td>80C</td> <td>37260</td> <td>Bolt Eye M20 X 325</td> <td>2</td> </tr> <tr> <td>86C</td> <td>65159</td> <td>Washer Els 20</td> <td>2</td> </tr> <tr> <td rowspan="8">RS/HVABC22.35/3/PLM</td> <td rowspan="8">S</td> <td>53AA</td> <td>149111</td> <td>Cond Term Hel 6/4.75 7/1.60 or 7/5.00 catenary for 35/50 HVABC</td> <td>2</td> </tr> <tr> <td>53AC</td> <td>149122</td> <td>Bundled restraint 35mm<sup>2</sup> 22kV HVABC</td> <td>2</td> </tr> <tr> <td>55D</td> <td>144950</td> <td>Parallel groove clamp (7.0-16.3mm Al)</td> <td>1</td> </tr> <tr> <td>61A</td> <td>322056</td> <td>Ball Clevis &amp; Pin 16mm</td> <td>2</td> </tr> <tr> <td>61B</td> <td>322386</td> <td>Socket Termination 16mm</td> <td>2</td> </tr> <tr> <td>61D</td> <td>322090</td> <td>Kink Pin 16mm</td> <td>2</td> </tr> <tr> <td>80C</td> <td>37260</td> <td>Bolt Eye M20 X 325</td> <td>2</td> </tr> <tr> <td>86C</td> <td>65159</td> <td>Washer Els 20</td> <td>2</td> </tr> </tbody> </table> |  |                           |   |   | Unit Assembly | Store Type | Item Ref | Stock Item | Stock Item Description | Quantity | RS/HVABC11.185/PLM | S | 53AB | 149112 | Cond Term Hel 19/3.65 catenary for 150/185 HVABC | 2 | 53AD | 149121 | Bundled restraint 185mm <sup>2</sup> 22kV HVABC | 2 | 55D | 144950 | Parallel groove clamp (7.0-16.3mm Al) | 1 | 61A | 322056 | Ball Clevis & Pin 16mm | 2 | 61B | 322386 | Socket Termination 16mm | 2 | 61D | 322090 | Kink Pin 16mm | 2 | 80C | 37260 | Bolt Eye M20 X 325 | 2 | 86C | 65159 | Washer Els 20 | 2 | RS/HVABC22.185/3/PLM | S | 53AB | 149112 | Cond Term Hel 19/3.65 catenary for 150/185 HVABC | 2 | 53AD | 149121 | Bundled restraint 185mm <sup>2</sup> 22kV HVABC | 2 | 55D | 144950 | Parallel groove clamp (7.0-16.3mm Al) | 1 | 61A | 322056 | Ball Clevis & Pin 16mm | 2 | 61B | 322386 | Socket Termination 16mm | 2 | 61D | 322090 | Kink Pin 16mm | 2 | 80C | 37260 | Bolt Eye M20 X 325 | 2 | 86C | 65159 | Washer Els 20 | 2 | RS/HVABC22.35/3/PLM | S | 53AA | 149111 | Cond Term Hel 6/4.75 7/1.60 or 7/5.00 catenary for 35/50 HVABC | 2 | 53AC | 149122 | Bundled restraint 35mm <sup>2</sup> 22kV HVABC | 2 | 55D | 144950 | Parallel groove clamp (7.0-16.3mm Al) | 1 | 61A | 322056 | Ball Clevis & Pin 16mm | 2 | 61B | 322386 | Socket Termination 16mm | 2 | 61D | 322090 | Kink Pin 16mm | 2 | 80C | 37260 | Bolt Eye M20 X 325 | 2 | 86C | 65159 | Washer Els 20 | 2 |
| Unit Assembly        | Store Type   | Item Ref   | Stock Item                | Stock Item Description  | Quantity  |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
| RS/HVABC11.185/PLM   | S  | 53AB   | 149112                    | Cond Term Hel 19/3.65 catenary for 150/185 HVABC                                | 2   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 53AD   | 149121                    | Bundled restraint 185mm <sup>2</sup> 22kV HVABC                                 | 2   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 55D  | 144950                    | Parallel groove clamp (7.0-16.3mm Al)   | 1   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 61A  | 322056                    | Ball Clevis & Pin 16mm  | 2   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 61B  | 322386                    | Socket Termination 16mm   | 2   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 61D  | 322090                    | Kink Pin 16mm   | 2   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 80C  | 37260                     | Bolt Eye M20 X 325  | 2   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 86C  | 65159                     | Washer Els 20   | 2   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
| RS/HVABC22.185/3/PLM | S  | 53AB   | 149112                    | Cond Term Hel 19/3.65 catenary for 150/185 HVABC                                | 2   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 53AD   | 149121                    | Bundled restraint 185mm <sup>2</sup> 22kV HVABC                                 | 2   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 55D  | 144950                    | Parallel groove clamp (7.0-16.3mm Al)   | 1   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 61A  | 322056                    | Ball Clevis & Pin 16mm  | 2   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 61B  | 322386                    | Socket Termination 16mm   | 2   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 61D  | 322090                    | Kink Pin 16mm   | 2   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 80C  | 37260                     | Bolt Eye M20 X 325  | 2   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 86C  | 65159                     | Washer Els 20   | 2   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
| RS/HVABC22.35/3/PLM  | S  | 53AA   | 149111                    | Cond Term Hel 6/4.75 7/1.60 or 7/5.00 catenary for 35/50 HVABC                  | 2   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 53AC   | 149122                    | Bundled restraint 35mm <sup>2</sup> 22kV HVABC                                  | 2   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 55D  | 144950                    | Parallel groove clamp (7.0-16.3mm Al)   | 1   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 61A  | 322056                    | Ball Clevis & Pin 16mm  | 2   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 61B  | 322386                    | Socket Termination 16mm   | 2   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 61D  | 322090                    | Kink Pin 16mm   | 2   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 80C  | 37260                     | Bolt Eye M20 X 325  | 2   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | 86C  | 65159                     | Washer Els 20   | 2   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
| B                    |  |  |                           |   |   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
| C                    |  |  |                           |   |   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
| D                    |  |  |                           |   |   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
| E                    | <p>- OBSOLETE<br/>- FOR REFERENCE ONLY</p>   |  |                           |   |   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
| F                    |  |  |                           |   |   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
| G                    |  |  |                           |   |   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
| H                    |  |  |                           |   |   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
| ALTERNATIONS         | ORIGINAL ISSUE   |                               |                           | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299 |   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  |  |                           |   | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNETWORKS |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  |  |                           |   | TITLE<br>NMS HVABC RIGHT ANGLE STRAIN UNJOINTED<br>MATERIALS LIST<br>OBSOLETE   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  |  |                           |   | SCALE<br>NTS  |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  |  |                           |   | REVISION<br>A   |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |
|                      |  | DRAWN CS PRO-SOLUTIONS<br>DESIGNED BY ELECTRO<br>CHECKED BY H.WESTBURY<br>APPROVED BY<br>DATE APPROVED 27/MAY/19 | D - OHC - C055 - SD - 002 |   | A4  |               |            |          |            |                        |          |                    |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                      |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |                     |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |               |   |



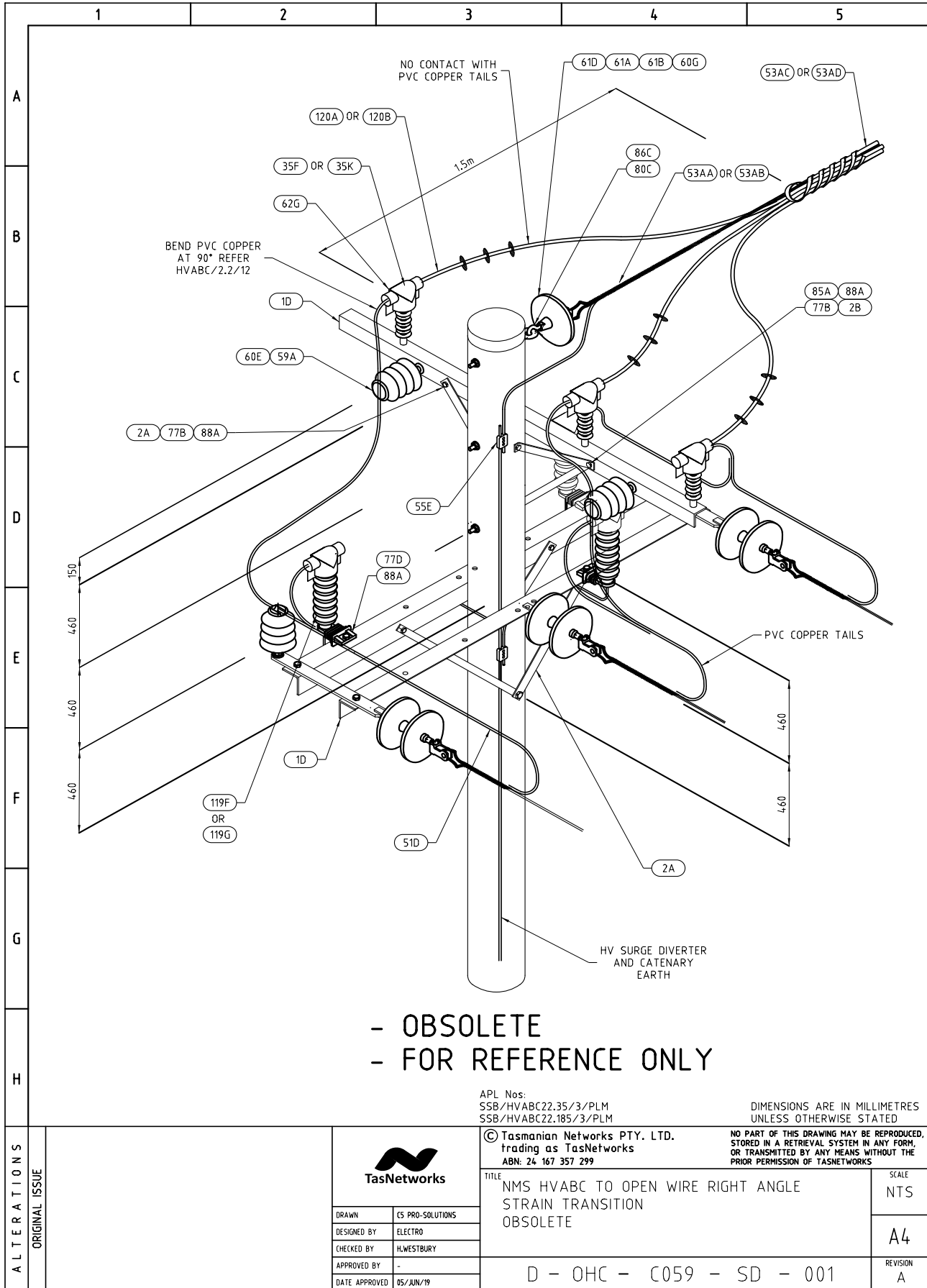
### 3.17 NMS HVABC Right Angle Strain Jointed




NMS HVABC Right Angle Strain, Jointed - Material List (Obsolete)

|  | 1   | 2                | 3           | 4       | 5          |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
|--|---|------------------|-------------|---------|------------|---------------|-------------|------------|--|------------------------|----------|---------------------|---|------|--------|--|---|------|--------|--|---|------|--------|---|---|-----|--------|---------------------------------------|---|-----|--------|------------------------|---|-----|--------|-------------------------|---|-----|--------|---------------|---|-----|-------|--------------------|---|--------------------|---|------|--------|--|---|------|--------|--|---|------|--------|--|---|-----|--------|---------------------------------------|---|-----|--------|------------------------|---|-----|--------|-------------------------|---|-----|--------|---------------|---|-----|-------|--------------------|---|--|--|-----|-------|---------------|---|
| A  | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Unit Assembly</th> <th style="width: 5%;">Store Type</th> <th style="width: 5%;">Item Ref</th> <th style="width: 5%;">Stock Item</th> <th style="width: 55%;">Stock Item Description</th> <th style="width: 10%;">Quantity</th> </tr> </thead> <tbody> <tr> <td rowspan="8">RSJ/HVABC22.185/PLM</td> <td rowspan="8">S</td> <td>120C</td> <td>149115</td> <td>Joint Kit 35/185mm<sup>2</sup> 22kV HVABC</td> <td>3</td> </tr> <tr> <td>53AB</td> <td>149112</td> <td>Cond Term Hel 19/3.65 catenary for 150/185 HVABC</td> <td>2</td> </tr> <tr> <td>53AD</td> <td>149121</td> <td>Bundled restraint 185mm<sup>2</sup> 22kV HVABC</td> <td>2</td> </tr> <tr> <td>55D</td> <td>144950</td> <td>Parallel groove clamp (7.0-16.3mm Al)</td> <td>1</td> </tr> <tr> <td>61A</td> <td>322056</td> <td>Ball Clevis &amp; Pin 16mm</td> <td>2</td> </tr> <tr> <td>61B</td> <td>322386</td> <td>Socket Termination 16mm</td> <td>2</td> </tr> <tr> <td>61D</td> <td>322090</td> <td>Kink Pin 16mm</td> <td>2</td> </tr> <tr> <td>80C</td> <td>37260</td> <td>Bolt Eye M20 X 325</td> <td>2</td> </tr> <tr> <td rowspan="8">RSJ/HVABC22.35/PLM</td> <td rowspan="8">S</td> <td>120C</td> <td>149115</td> <td>Joint Kit 35/185mm<sup>2</sup> 22kV HVABC</td> <td>3</td> </tr> <tr> <td>53AA</td> <td>149111</td> <td>Cond Term Hel 6/4.75 7/1.60 or 7/5.00 catenary for 35/50 HVABC</td> <td>2</td> </tr> <tr> <td>53AC</td> <td>149122</td> <td>Bundled restraint 35mm<sup>2</sup> 22kV HVABC</td> <td>2</td> </tr> <tr> <td>55D</td> <td>144950</td> <td>Parallel groove clamp (7.0-16.3mm Al)</td> <td>1</td> </tr> <tr> <td>61A</td> <td>322056</td> <td>Ball Clevis &amp; Pin 16mm</td> <td>2</td> </tr> <tr> <td>61B</td> <td>322386</td> <td>Socket Termination 16mm</td> <td>2</td> </tr> <tr> <td>61D</td> <td>322090</td> <td>Kink Pin 16mm</td> <td>2</td> </tr> <tr> <td>80C</td> <td>37260</td> <td>Bolt Eye M20 X 325</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>86C</td> <td>65159</td> <td>Washer Els 20</td> <td>2</td> </tr> </tbody> </table> |                  |             |         |            | Unit Assembly | Store Type  | Item Ref   | Stock Item   | Stock Item Description | Quantity | RSJ/HVABC22.185/PLM | S | 120C | 149115 | Joint Kit 35/185mm <sup>2</sup> 22kV HVABC | 3 | 53AB | 149112 | Cond Term Hel 19/3.65 catenary for 150/185 HVABC | 2 | 53AD | 149121 | Bundled restraint 185mm <sup>2</sup> 22kV HVABC | 2 | 55D | 144950 | Parallel groove clamp (7.0-16.3mm Al) | 1 | 61A | 322056 | Ball Clevis & Pin 16mm | 2 | 61B | 322386 | Socket Termination 16mm | 2 | 61D | 322090 | Kink Pin 16mm | 2 | 80C | 37260 | Bolt Eye M20 X 325 | 2 | RSJ/HVABC22.35/PLM | S | 120C | 149115 | Joint Kit 35/185mm <sup>2</sup> 22kV HVABC | 3 | 53AA | 149111 | Cond Term Hel 6/4.75 7/1.60 or 7/5.00 catenary for 35/50 HVABC | 2 | 53AC | 149122 | Bundled restraint 35mm <sup>2</sup> 22kV HVABC | 2 | 55D | 144950 | Parallel groove clamp (7.0-16.3mm Al) | 1 | 61A | 322056 | Ball Clevis & Pin 16mm | 2 | 61B | 322386 | Socket Termination 16mm | 2 | 61D | 322090 | Kink Pin 16mm | 2 | 80C | 37260 | Bolt Eye M20 X 325 | 2 |  |  | 86C | 65159 | Washer Els 20 | 2 |
| Unit Assembly  |   |                  |             |         |            | Store Type    | Item Ref    | Stock Item | Stock Item Description   | Quantity               |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| RSJ/HVABC22.185/PLM  |   |                  |             |         |            | S             | 120C        | 149115     | Joint Kit 35/185mm <sup>2</sup> 22kV HVABC                     | 3                      |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
|  |   |                  |             |         |            |               | 53AB        | 149112     | Cond Term Hel 19/3.65 catenary for 150/185 HVABC               | 2                      |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
|  |   |                  |             |         |            |               | 53AD        | 149121     | Bundled restraint 185mm <sup>2</sup> 22kV HVABC                | 2                      |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
|  |   |                  |             |         |            |               | 55D         | 144950     | Parallel groove clamp (7.0-16.3mm Al)                          | 1                      |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
|  |   |                  |             |         |            |               | 61A         | 322056     | Ball Clevis & Pin 16mm   | 2                      |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
|  |   |                  |             |         |            |               | 61B         | 322386     | Socket Termination 16mm  | 2                      |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
|  |   |                  |             |         |            |               | 61D         | 322090     | Kink Pin 16mm  | 2                      |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
|  |   |                  |             |         |            |               | 80C         | 37260      | Bolt Eye M20 X 325   | 2                      |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| RSJ/HVABC22.35/PLM   |   |                  |             |         |            | S             | 120C        | 149115     | Joint Kit 35/185mm <sup>2</sup> 22kV HVABC                     | 3                      |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
|  |   |                  |             |         |            |               | 53AA        | 149111     | Cond Term Hel 6/4.75 7/1.60 or 7/5.00 catenary for 35/50 HVABC | 2                      |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
|  |   |                  |             |         |            |               | 53AC        | 149122     | Bundled restraint 35mm <sup>2</sup> 22kV HVABC                 | 2                      |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
|  |   |                  |             |         |            |               | 55D         | 144950     | Parallel groove clamp (7.0-16.3mm Al)                          | 1                      |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
|  |   |                  |             |         |            |               | 61A         | 322056     | Ball Clevis & Pin 16mm   | 2                      |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
|  |   |                  |             |         |            |               | 61B         | 322386     | Socket Termination 16mm  | 2                      |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
|  |   |                  |             |         |            |               | 61D         | 322090     | Kink Pin 16mm  | 2                      |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
|  |   |                  |             |         |            |               | 80C         | 37260      | Bolt Eye M20 X 325   | 2                      |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
|  |   |                  |             |         |            |               | 86C         | 65159      | Washer Els 20  | 2                      |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| B  |   |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| C  |   |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| D  |   |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| E  |   |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| F  |   |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| G  |   |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| H  |   |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| <p>- OBSOLETE<br/>- FOR REFERENCE ONLY</p>   |   |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| <p>DIMENSIONS ARE IN MILLIMETRES<br/>UNLESS OTHERWISE STATED</p>   |   |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| <p>© Tasmanian Networks PTY. LTD.<br/>Trading as TasNetworks<br/>ABN: 24 167 357 299</p>   |   |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| <p>NO PART OF THIS DRAWING MAY BE REPRODUCED,<br/>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br/>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br/>PRIOR PERMISSION OF TASNETWORKS</p>  |   |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
|   |   |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| <p>TITLE<br/>NMS HVABC RIGHT ANGLE STRAIN JOINTED<br/>MATERIALS LIST<br/>OBSOLETE</p>  |   |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| <p>SCALE<br/>NTS</p>   |   |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| <p>A4</p>  |   |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| <p>REVISION<br/>A</p>  |   |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| <p>D - OHC - C056 - SD - 002</p>   |   |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| <p>ALTERNATIONS<br/>ORIGINAL ISSUE</p>   |   |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DRAWN</td> <td style="width: 50%;">CS PRO-SOLUTIONS</td> </tr> <tr> <td>DESIGNED BY</td> <td>ELECTRO</td> </tr> <tr> <td>CHECKED BY</td> <td>H.WESTBURY</td> </tr> <tr> <td>APPROVED BY</td> <td></td> </tr> <tr> <td>DATE APPROVED</td> <td>27/MAY/19</td> </tr> </table> | DRAWN   | CS PRO-SOLUTIONS | DESIGNED BY | ELECTRO | CHECKED BY | H.WESTBURY    | APPROVED BY |            | DATE APPROVED  | 27/MAY/19              |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| DRAWN  | CS PRO-SOLUTIONS  |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| DESIGNED BY  | ELECTRO   |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| CHECKED BY   | H.WESTBURY  |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| APPROVED BY  |   |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |
| DATE APPROVED  | 27/MAY/19   |                  |             |         |            |               |             |            |  |                        |          |                     |   |      |        |  |   |      |        |  |   |      |        |   |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |                    |   |      |        |  |   |      |        |  |   |      |        |  |   |     |        |                                       |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |  |  |     |       |               |   |

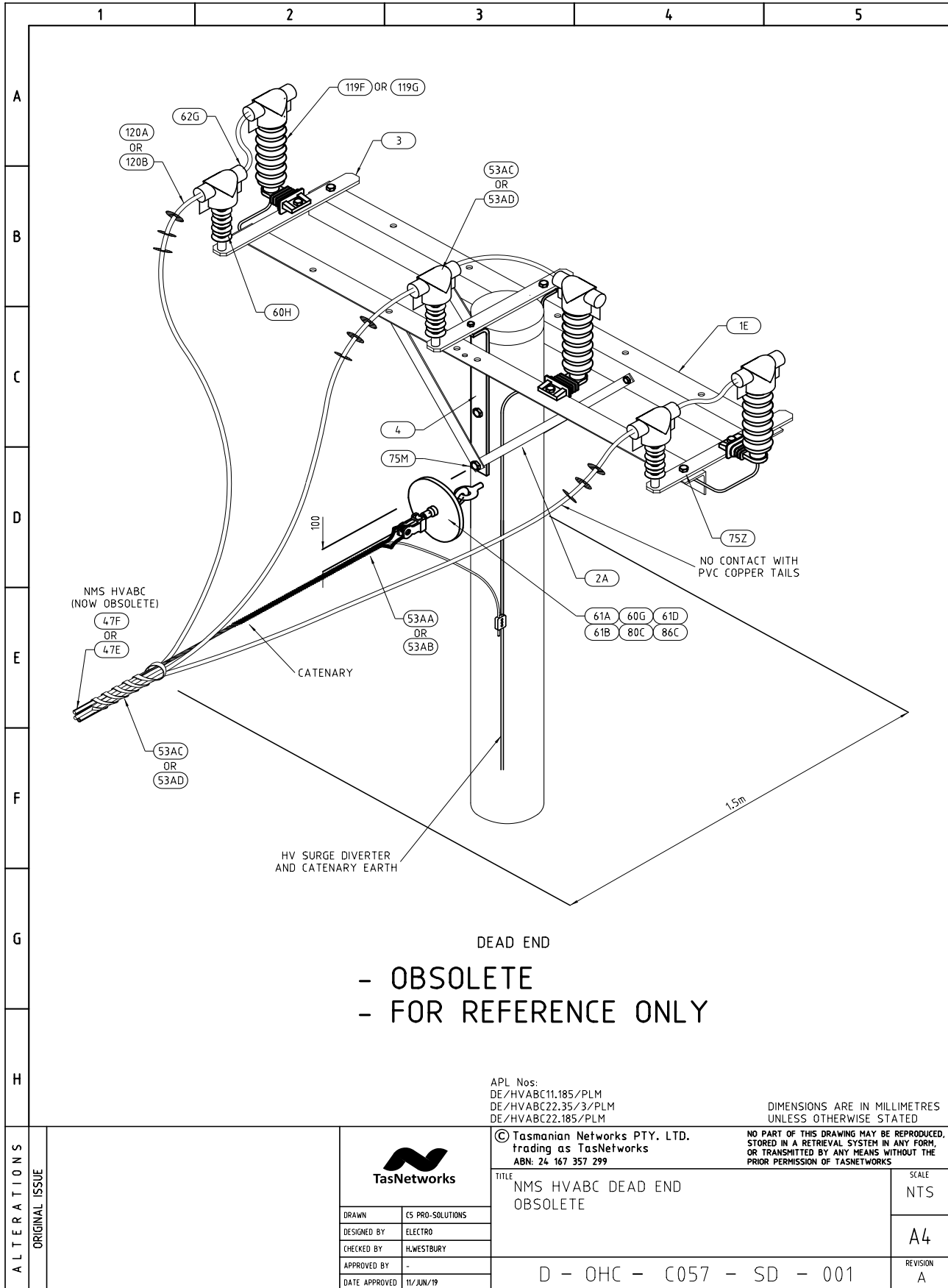
### 3.18 NMS HVABC Open Wire Strain Transition



NMS HVABC Open Wire Strain Transition - Material List (Obsolete)

|                     |        | 1   |                | 2   |   | 3   |   | 4   |            | 5             |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|---------------------|--------|---|----------------|---|---|---|---|---|------------|---------------|------------|--|------------|----------|------------|------------------------|----------|----------------------|---|----|-------|-------------------------------|---|------|--------|--|---|------|--------|--|---|----|--------|--------------|---|-----|--------|-----------------------------------|---|----|--------|---------------------|---|-----|--------|--|---|-----|--------|---|---|-----|--------|--------------------------------------|---|-----|--------|---|---|-----|--------|----------------------|---|------|--------|--|---|------|--------|--|---|-----|--------|---------------------|---|-----|--------|----------------------|---|-----|--------|--|---|-----|--------|--------------------|---|-----|--------|-----------------------------------|---|-----|--------|--|---|----|--------|------------------------|---|-----|-------|--------------------|---|-----|-------|--------------------|---|-----|-------|--------------------|---|-----|-------|-------------------|---|-----|-------|--------------------|---|-----|-------|---------|---|-----|-------|-----------------------|---|-----|-------|---------------|---|-----|-------|-----------------|---|-----|--------|---|---|----|--------|---------------------|---|-----|--------|--|---|---------------------|---|----|-------|-------------------------------|---|------|--------|--|---|------|--------|---|---|----|--------|--------------|---|-----|--------|-----------------------------------|---|----|--------|---------------------|---|-----|--------|--|---|-----|--------|--------------------------------------|---|-----|--------|---|---|-----|--------|----------------------|---|------|--------|--|---|------|--------|---|---|-----|--------|---------------------|---|-----|--------|----------------------|---|-----|--------|--|---|-----|--------|--------------------|---|-----|--------|-----------------------------------|---|-----|--------|--|---|----|--------|------------------------|---|-----|-------|--------------------|---|-----|-------|--------------------|---|-----|-------|--------------------|---|-----|-------|-------------------|---|-----|-------|--------------------|---|-----|-------|---------|---|-----|-------|-----------------------|---|-----|-------|---------------|---|-----|-------|-----------------|---|-------|--------|--|---|-----|--------|---|---|----|--------|---------------------|---|-----|--------|--|---|
| A                   | B      | C   | D              | E   | F | G   | H | <table border="1"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Stock Item Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td rowspan="40">SSB/HVABC22.35/3/PLM</td> <td rowspan="40">S</td> <td>89</td> <td>66803</td> <td>Washer 75 x 75 x 6 (M20 Hole)</td> <td>2</td> </tr> <tr> <td>119G</td> <td>225773</td> <td>Lightning Arrester (NOT L.L TESTED) ABB 22kV 10kA c/w bird cap &amp; M12 studs</td> <td>3</td> </tr> <tr> <td>120A</td> <td>149116</td> <td>Termination kit 35mm<sup>2</sup> 22kV HVABC</td> <td>2</td> </tr> <tr> <td>1D</td> <td>323304</td> <td>Crossarm Mk4</td> <td>2</td> </tr> <tr> <td>29K</td> <td>323401</td> <td>Service Fuse Bracket 3 ph Michaud</td> <td>1</td> </tr> <tr> <td>2B</td> <td>323317</td> <td>Crossarm Strap Mk17</td> <td>1</td> </tr> <tr> <td>35B</td> <td>145653</td> <td>Lug Preinsuled LVABC 95mm<sup>2</sup></td> <td>4</td> </tr> <tr> <td>35F</td> <td>152476</td> <td>Lug Crimp Bimetal 35mm<sup>2</sup> M12</td> <td>6</td> </tr> <tr> <td>35P</td> <td>141299</td> <td>Lug Bolted 16mm<sup>2</sup> 12 hole</td> <td>9</td> </tr> <tr> <td>36C</td> <td>141304</td> <td>Q LUG bolted 50 70mm<sup>2</sup> tinned copper</td> <td>6</td> </tr> <tr> <td>41B</td> <td>157877</td> <td>Sleeving 6 ID 2 Wall</td> <td>6</td> </tr> <tr> <td>53AA</td> <td>149111</td> <td>Cond Term Hel 6/4.75 7/1.60 or 7/5.00 catenary for 35/50 HVABC</td> <td>2</td> </tr> <tr> <td>53AC</td> <td>149122</td> <td>Bundled restraint 35mm<sup>2</sup> 22kV HVABC</td> <td>2</td> </tr> <tr> <td>59A</td> <td>322721</td> <td>Pin, Insulator 22kV</td> <td>1</td> </tr> <tr> <td>60E</td> <td>320531</td> <td>Insulator Pin 22/450</td> <td>1</td> </tr> <tr> <td>60H</td> <td>320735</td> <td>Insulator Raychem standoff 24kV set of 3</td> <td>1</td> </tr> <tr> <td>62F</td> <td>144620</td> <td>Bushing Cover 22kV</td> <td>3</td> </tr> <tr> <td>63M</td> <td>236323</td> <td>Switch Fuse EDO 24KV single phase</td> <td>3</td> </tr> <tr> <td>64F</td> <td>236247</td> <td>LVABC Switch Fuse Box - 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63 to 315kVA Bolt Fixed Transformers</td> <td>1</td> </tr> </tbody> </table> |            |               |            | Unit Assembly  | Store Type | Item Ref | Stock Item | Stock Item Description | Quantity | SSB/HVABC22.35/3/PLM | S | 89 | 66803 | Washer 75 x 75 x 6 (M20 Hole) | 2 | 119G | 225773 | Lightning Arrester (NOT L.L TESTED) ABB 22kV 10kA c/w bird cap & M12 studs | 3 | 120A | 149116 | Termination kit 35mm <sup>2</sup> 22kV HVABC | 2 | 1D | 323304 | Crossarm Mk4 | 2 | 29K | 323401 | Service Fuse Bracket 3 ph Michaud | 1 | 2B | 323317 | Crossarm Strap Mk17 | 1 | 35B | 145653 | Lug Preinsuled LVABC 95mm <sup>2</sup> | 4 | 35F | 152476 | Lug Crimp Bimetal 35mm <sup>2</sup> M12 | 6 | 35P | 141299 | Lug Bolted 16mm <sup>2</sup> 12 hole | 9 | 36C | 141304 | Q LUG bolted 50 70mm <sup>2</sup> tinned copper | 6 | 41B | 157877 | Sleeving 6 ID 2 Wall | 6 | 53AA | 149111 | Cond Term Hel 6/4.75 7/1.60 or 7/5.00 catenary for 35/50 HVABC | 2 | 53AC | 149122 | Bundled restraint 35mm <sup>2</sup> 22kV HVABC | 2 | 59A | 322721 | Pin, Insulator 22kV | 1 | 60E | 320531 | Insulator Pin 22/450 | 1 | 60H | 320735 | Insulator Raychem standoff 24kV set of 3 | 1 | 62F | 144620 | Bushing Cover 22kV | 3 | 63M | 236323 | Switch Fuse EDO 24KV single phase | 3 | 64F | 236247 | LVABC Switch Fuse Box - 160A 1ph (6-95 Cu or Al) | 3 | 6A | 323315 | Insulator Bracket Mk15 | 1 | 75D | 32276 | Bolt Hex M16 X 150 | 3 | 75N | 32288 | Bolt Hex M16 X 350 | 2 | 75P | 32289 | Bolt Hex M16 X 375 | 2 | 75Z | 32261 | Bolt Hex M16 X 45 | 3 | 76C | 32340 | Bolt Hex M20 X 400 | 2 | 82B | 40442 | Nut M20 | 4 | 85B | 50250 | Coach Screw M12 X 100 | 2 | 86B | 65158 | Washer Els 16 | 4 | 88B | 66413 | Washer Tower 16 | 3 | 51E | 103217 | Wire Electrical Cu 16mm <sup>2</sup> 1c Black (U/V Resistant) | 2 | 2A | 323314 | Crossarm Strap Mk14 | 4 | 15F | 323449 | T/F Mounting Brackets - 63 to 315kVA Bolt Fixed Transformers | 1 | SSB/HVABC22.185/PLM | S | 89 | 66803 | Washer 75 x 75 x 6 (M20 Hole) | 2 | 119G | 225773 | Lightning Arrester (NOT L.L TESTED) ABB 22kV 10kA c/w bird cap & M12 studs | 3 | 120B | 149117 | Termination kit 185mm <sup>2</sup> 22kV HVABC | 2 | 1D | 323304 | Crossarm Mk4 | 2 | 29K | 323401 | Service Fuse Bracket 3 ph Michaud | 1 | 2B | 323317 | Crossarm Strap Mk17 | 1 | 35B | 145653 | Lug Preinsuled LVABC 95mm <sup>2</sup> | 4 | 35P | 141299 | Lug Bolted 16mm <sup>2</sup> 12 hole | 9 | 36C | 141304 | Q LUG bolted 50 70mm <sup>2</sup> tinned copper | 6 | 41B | 157877 | Sleeving 6 ID 2 Wall | 6 | 53AB | 149112 | Cond Term Hel 19/3.65 catenary for 150/185 HVABC | 2 | 53AD | 149121 | Bundled restraint 185mm <sup>2</sup> 22kV HVABC | 2 | 59A | 322721 | Pin, Insulator 22kV | 1 | 60E | 320531 | Insulator Pin 22/450 | 1 | 60H | 320735 | Insulator Raychem standoff 24kV set of 3 | 1 | 62F | 144620 | Bushing Cover 22kV | 3 | 63M | 236323 | Switch Fuse EDO 24KV single phase | 3 | 64F | 236247 | LVABC Switch Fuse Box - 160A 1ph (6-95 Cu or Al) | 3 | 6A | 323315 | Insulator Bracket Mk15 | 1 | 75D | 32276 | Bolt Hex M16 X 150 | 3 | 75N | 32288 | Bolt Hex M16 X 350 | 2 | 75P | 32289 | Bolt Hex M16 X 375 | 2 | 75Z | 32261 | Bolt Hex M16 X 45 | 3 | 76C | 32340 | Bolt Hex M20 X 400 | 2 | 82B | 40442 | Nut M20 | 4 | 85B | 50250 | Coach Screw M12 X 100 | 2 | 86B | 65158 | Washer Els 16 | 4 | 88B | 66413 | Washer Tower 16 | 3 | #REF! | 152482 | Lug Crimp Bimetal 185mm <sup>2</sup> M12 | 6 | 51E | 103217 | Wire Electrical Cu 16mm <sup>2</sup> 1c Black (U/V Resistant) | 2 | 2A | 323314 | Crossarm Strap Mk14 | 4 | 15F | 323449 | T/F Mounting Brackets - 63 to 315kVA Bolt Fixed Transformers | 1 |
|                     |        |   |                |   |   |   |   | Unit Assembly   | Store Type | Item Ref      | Stock Item | Stock Item Description   | Quantity   |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        |   |                |   |   |   |   | SSB/HVABC22.35/3/PLM  | S          | 89            | 66803      | Washer 75 x 75 x 6 (M20 Hole)  | 2          |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        |   |                |   |   |   |   |   |            | 119G          | 225773     | Lightning Arrester (NOT L.L TESTED) ABB 22kV 10kA c/w bird cap & M12 studs | 3          |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        |   |                |   |   |   |   |   |            | 120A          | 149116     | Termination kit 35mm <sup>2</sup> 22kV HVABC                               | 2          |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        |   |                |   |   |   |   |   |            | 1D            | 323304     | Crossarm Mk4   | 2          |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        |   |                |   |   |   |   |   |            | 29K           | 323401     | Service Fuse Bracket 3 ph Michaud  | 1          |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        |   |                |   |   |   |   |   |            | 2B            | 323317     | Crossarm Strap Mk17  | 1          |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        |   |                |   |   |   |   |   |            | 35B           | 145653     | Lug Preinsuled LVABC 95mm <sup>2</sup>                                     | 4          |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        |   |                |   |   |   |   |   |            | 35F           | 152476     | Lug Crimp Bimetal 35mm <sup>2</sup> M12                                    | 6          |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        |   |                |   |   |   |   |   |            | 35P           | 141299     | Lug Bolted 16mm <sup>2</sup> 12 hole                                       | 9          |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        |   |                |   |   |   |   |   |            | 36C           | 141304     | Q LUG bolted 50 70mm <sup>2</sup> tinned copper                            | 6          |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        |   |                |   |   |   |   |   |            | 41B           | 157877     | Sleeving 6 ID 2 Wall   | 6          |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        |   |                |   |   |   |   |   |            | 53AA          | 149111     | Cond Term Hel 6/4.75 7/1.60 or 7/5.00 catenary for 35/50 HVABC             | 2          |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        |   |                |   |   |   |   |   |            | 53AC          | 149122     | Bundled restraint 35mm <sup>2</sup> 22kV HVABC                             | 2          |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        |   |                |   |   |   |   |   |            | 59A           | 322721     | Pin, Insulator 22kV  | 1          |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        |   |                |   |   |   |   |   |            | 60E           | 320531     | Insulator Pin 22/450   | 1          |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        |   |                |   |   |   |   |   |            | 60H           | 320735     | Insulator Raychem standoff 24kV set of 3                                   | 1          |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        |   |                |   |   |   |   |   |            | 62F           | 144620     | Bushing Cover 22kV   | 3          |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        |   |                |   |   |   |   |   |            | 63M           | 236323     | Switch Fuse EDO 24KV single phase  | 3          |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
| 64F                 | 236247 | LVABC Switch Fuse Box - 160A 1ph (6-95 Cu or Al)              | 3              |   |   |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
| 6A                  | 323315 | Insulator Bracket Mk15  | 1              |   |   |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
| 75D                 | 32276  | Bolt Hex M16 X 150  | 3              |   |   |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
| 75N                 | 32288  | Bolt Hex M16 X 350  | 2              |   |   |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
| 75P                 | 32289  | Bolt Hex M16 X 375  | 2              |   |   |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
| 75Z                 | 32261  | Bolt Hex M16 X 45   | 3              |   |   |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
| 76C                 | 32340  | Bolt Hex M20 X 400  | 2              |   |   |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
| 82B                 | 40442  | Nut M20   | 4              |   |   |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
| 85B                 | 50250  | Coach Screw M12 X 100   | 2              |   |   |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
| 86B                 | 65158  | Washer Els 16   | 4              |   |   |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
| 88B                 | 66413  | Washer Tower 16   | 3              |   |   |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
| 51E                 | 103217 | Wire Electrical Cu 16mm <sup>2</sup> 1c Black (U/V Resistant) | 2              |   |   |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
| 2A                  | 323314 | Crossarm Strap Mk14   | 4              |   |   |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
| 15F                 | 323449 | T/F Mounting Brackets - 63 to 315kVA Bolt Fixed Transformers  | 1              |   |   |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
| SSB/HVABC22.185/PLM | S      | 89  | 66803          | Washer 75 x 75 x 6 (M20 Hole)   | 2 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 119G  | 225773         | Lightning Arrester (NOT L.L TESTED) ABB 22kV 10kA c/w bird cap & M12 studs          | 3 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 120B  | 149117         | Termination kit 185mm <sup>2</sup> 22kV HVABC                                       | 2 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 1D  | 323304         | Crossarm Mk4  | 2 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 29K   | 323401         | Service Fuse Bracket 3 ph Michaud   | 1 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 2B  | 323317         | Crossarm Strap Mk17   | 1 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 35B   | 145653         | Lug Preinsuled LVABC 95mm <sup>2</sup>  | 4 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 35P   | 141299         | Lug Bolted 16mm <sup>2</sup> 12 hole  | 9 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 36C   | 141304         | Q LUG bolted 50 70mm <sup>2</sup> tinned copper                                     | 6 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 41B   | 157877         | Sleeving 6 ID 2 Wall  | 6 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 53AB  | 149112         | Cond Term Hel 19/3.65 catenary for 150/185 HVABC                                    | 2 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 53AD  | 149121         | Bundled restraint 185mm <sup>2</sup> 22kV HVABC                                     | 2 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 59A   | 322721         | Pin, Insulator 22kV   | 1 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 60E   | 320531         | Insulator Pin 22/450  | 1 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 60H   | 320735         | Insulator Raychem standoff 24kV set of 3  | 1 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 62F   | 144620         | Bushing Cover 22kV  | 3 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 63M   | 236323         | Switch Fuse EDO 24KV single phase   | 3 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 64F   | 236247         | LVABC Switch Fuse Box - 160A 1ph (6-95 Cu or Al)                                    | 3 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 6A  | 323315         | Insulator Bracket Mk15  | 1 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 75D   | 32276          | Bolt Hex M16 X 150  | 3 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 75N   | 32288          | Bolt Hex M16 X 350  | 2 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 75P   | 32289          | Bolt Hex M16 X 375  | 2 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 75Z   | 32261          | Bolt Hex M16 X 45   | 3 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 76C   | 32340          | Bolt Hex M20 X 400  | 2 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 82B   | 40442          | Nut M20   | 4 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 85B   | 50250          | Coach Screw M12 X 100   | 2 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 86B   | 65158          | Washer Els 16   | 4 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 88B   | 66413          | Washer Tower 16   | 3 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | #REF!   | 152482         | Lug Crimp Bimetal 185mm <sup>2</sup> M12  | 6 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 51E   | 103217         | Wire Electrical Cu 16mm <sup>2</sup> 1c Black (U/V Resistant)                       | 2 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 2A  | 323314         | Crossarm Strap Mk14   | 4 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | 15F   | 323449         | T/F Mounting Brackets - 63 to 315kVA Bolt Fixed Transformers                        | 1 |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | <p>- OBSOLETE<br/>- FOR REFERENCE ONLY</p>                    |                |   |   |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | ALTERATIONS   | ORIGINAL ISSUE |  |   | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299 |   | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNETWORKS   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        |   |                | DRAWN   |   | ES PRO-SOLUTIONS  |   | TITLE<br>NMS HVABC TO OPEN WIRE RIGHT ANGLE<br>STRAIN TRANSITION<br>MATERIALS LIST<br>OBSOLETE  |            | SCALE<br>NTS  |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        |   |                | DESIGNED BY   |   | ELECTRO   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        |   |                | CHECKED BY  |   | H.WESTBURY  |   | D - OHC - C059 - SD - 002   |            | REVISION<br>A |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        | APPROVED BY   |                |   |   |   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |
|                     |        |   |                | DATE APPROVED   |   | 27/MAY/19   |   |   |            |               |            |  |            |          |            |                        |          |                      |   |    |       |                               |   |      |        |  |   |      |        |  |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |   |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |  |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |     |        |   |   |    |        |                     |   |     |        |  |   |                     |   |    |       |                               |   |      |        |  |   |      |        |   |   |    |        |              |   |     |        |                                   |   |    |        |                     |   |     |        |  |   |     |        |                                      |   |     |        |   |   |     |        |                      |   |      |        |  |   |      |        |   |   |     |        |                     |   |     |        |                      |   |     |        |  |   |     |        |                    |   |     |        |                                   |   |     |        |  |   |    |        |                        |   |     |       |                    |   |     |       |                    |   |     |       |                    |   |     |       |                   |   |     |       |                    |   |     |       |         |   |     |       |                       |   |     |       |               |   |     |       |                 |   |       |        |  |   |     |        |   |   |    |        |                     |   |     |        |  |   |

### 3.19 NMS HVABC Dead End (Obsolete)



NMS HVABC Dead End - Material List (Obsolete)

|       | 1                   | 2  | 3      | 4  | 5  |        |  |  |   |
|-------|---------------------|--|--------|--|--|--------|--|--|---|
| A     | DE/HVABC11.185/PLM  | S  | 3      | 323310   | Strain Plate Mk10  | 3      |  |  |   |
|       |                     |  | 4      | 323311   | L Bracket Mk11   | 2      |  |  |   |
|       |                     |  | 119F   | 225772   | Lightning Arrester (NOT L/L TESTED) ABB 11kV 10kA c/w bird cap & M12 studs | 3      |  |  |   |
|       |                     |  | 120B   | 149117   | Termination kit 185mm <sup>2</sup> 22kV HVABC                              | 1      |  |  |   |
|       |                     |  | 1E     | 323305   | Crossarm Mk5   | 2      |  |  |   |
|       |                     |  | 53AB   | 149112   | Cond Term Hel 19/3.65 catenary for 150/185 HVABC                           | 1      |  |  |   |
|       |                     |  | 53AD   | 149121   | Bundled restraint 185mm <sup>2</sup> 22kV HVABC                            | 1      |  |  |   |
|       |                     |  | 60G    | 321260   | Insulator Disc Porcelain 16mm 70kN 146mm                                   | 1      |  |  |   |
|       |                     |  | 60H    | 320735   | Insulator Raychem standoff 24kV set of 3                                   | 1      |  |  |   |
|       |                     |  | 61A    | 322056   | Ball Clevis & Pin 16mm   | 1      |  |  |   |
| B     |                     |  | 61B    | 322386   | Socket Termination 16mm  | 1      |  |  |   |
|       |                     |  | 61D    | 322090   | Kink Pin 16mm  | 1      |  |  |   |
|       |                     |  | 73F    | 32191  | Bolt Hex M10 X 100   | 3      |  |  |   |
|       |                     |  | 75M    | 32287  | Bolt Hex M16 X 325   | 2      |  |  |   |
|       |                     |  | 75Z    | 32261  | Bolt Hex M16 X 45  | 3      |  |  |   |
|       |                     |  | 80C    | 37260  | Bolt Eye M20 X 325   | 1      |  |  |   |
|       |                     |  | 82B    | 40442  | Nut M20  | 1      |  |  |   |
|       |                     |  | 86C    | 65159  | Washer Els 20  | 1      |  |  |   |
|       |                     |  | #N/A   | 40439  | Nut M10  | 6      |  |  |   |
|       |                     |  | C      |  |  | 303569 | Copper "T" Bar for S/Off Insulators or L/A's to HV Cables or HVABC | 3  |   |
| #REF! | 152482              | Lug Crimp Bimetal 185mm <sup>2</sup> M12                                   |        |  |  | 3      |  |  |   |
| 2A    | 323314              | Crossarm Strap Mk14  |        |  |  | 4      |  |  |   |
| 3     | 323310              | Strain Plate Mk10  |        |  |  | 3      |  |  |   |
| 4     | 323311              | L Bracket Mk11   |        |  |  | 2      |  |  |   |
| 119G  | 225773              | Lightning Arrester (NOT L/L TESTED) ABB 22kV 10kA c/w bird cap & M12 studs |        |  |  | 3      |  |  |   |
| 120A  | 149116              | Termination kit 35mm <sup>2</sup> 22kV HVABC                               |        |  |  | 1      |  |  |   |
| 1E    | 323305              | Crossarm Mk5   |        |  |  | 2      |  |  |   |
| 35F   | 152476              | Lug Crimp Bimetal 35mm <sup>2</sup> M12                                    |        |  |  | 3      |  |  |   |
| D     | DE/HVABC22.35/3/PLM | S  |        |  |  | 53AA   | 149111   | Cond Term Hel 6/4.75 7/1.60 or 7/5.00 catenary for 35/50 HVABC             | 1 |
|       |                     |  | 53AC   | 149122   | Bundled restraint 35mm <sup>2</sup> 22kV HVABC                             | 1      |  |  |   |
|       |                     |  | 60G    | 321260   | Insulator Disc Porcelain 16mm 70kN 146mm                                   | 1      |  |  |   |
|       |                     |  | 60H    | 320735   | Insulator Raychem standoff 24kV set of 3                                   | 1      |  |  |   |
|       |                     |  | 61A    | 322056   | Ball Clevis & Pin 16mm   | 1      |  |  |   |
|       |                     |  | 61B    | 322386   | Socket Termination 16mm  | 1      |  |  |   |
|       |                     |  | 61D    | 322090   | Kink Pin 16mm  | 1      |  |  |   |
|       |                     |  | 73F    | 32191  | Bolt Hex M10 X 100   | 3      |  |  |   |
|       |                     |  | 75M    | 32287  | Bolt Hex M16 X 325   | 2      |  |  |   |
|       |                     |  | 75Z    | 32261  | Bolt Hex M16 X 45  | 3      |  |  |   |
| E     |                     |  | 80C    | 37260  | Bolt Eye M20 X 325   | 1      |  |  |   |
|       |                     |  | 82B    | 40442  | Nut M20  | 1      |  |  |   |
|       |                     |  | 86C    | 65159  | Washer Els 20  | 1      |  |  |   |
|       |                     |  | #N/A   | 40439  | Nut M10  | 6      |  |  |   |
|       |                     |  | 303569 | Copper "T" Bar for S/Off Insulators or L/A's to HV Cables or HVABC | 3  |        |  |  |   |
|       |                     |  | 2A     | 323314   | Crossarm Strap Mk14  | 4      |  |  |   |
|       |                     |  | F      | DE/HVABC22.185/PLM   | S  | 3      | 323310   | Strain Plate Mk10  | 3 |
|       |                     |  |        |  |  | 4      | 323311   | L Bracket Mk11   | 2 |
|       |                     |  |        |  |  | 119G   | 225773   | Lightning Arrester (NOT L/L TESTED) ABB 22kV 10kA c/w bird cap & M12 studs | 3 |
|       |                     |  |        |  |  | 120B   | 149117   | Termination kit 185mm <sup>2</sup> 22kV HVABC                              | 1 |
| 1E    | 323305              | Crossarm Mk5   |        |  |  | 2      |  |  |   |
| 53AB  | 149112              | Cond Term Hel 19/3.65 catenary for 150/185 HVABC                           |        |  |  | 1      |  |  |   |
| 53AD  | 149121              | Bundled restraint 185mm <sup>2</sup> 22kV HVABC                            |        |  |  | 1      |  |  |   |
| 60G   | 321260              | Insulator Disc Porcelain 16mm 70kN 146mm                                   |        |  |  | 1      |  |  |   |
| 60H   | 320735              | Insulator Raychem standoff 24kV set of 3                                   |        |  |  | 1      |  |  |   |
| G     |                     |  |        |  |  | 61A    | 322056   | Ball Clevis & Pin 16mm   | 1 |
|       |                     |  | 61B    | 322386   | Socket Termination 16mm  | 1      |  |  |   |
|       |                     |  | 61D    | 322090   | Kink Pin 16mm  | 1      |  |  |   |
|       |                     |  | 73F    | 32191  | Bolt Hex M10 X 100   | 3      |  |  |   |
|       |                     |  | 75M    | 32287  | Bolt Hex M16 X 325   | 2      |  |  |   |
|       |                     |  | 75Z    | 32261  | Bolt Hex M16 X 45  | 3      |  |  |   |
|       |                     |  | 80C    | 37260  | Bolt Eye M20 X 325   | 1      |  |  |   |
|       |                     |  | 82B    | 40442  | Nut M20  | 1      |  |  |   |
|       |                     |  | 86C    | 65159  | Washer Els 20  | 1      |  |  |   |
|       |                     |  | #N/A   | 40439  | Nut M10  | 6      |  |  |   |
| H     |                     |  | 303569 | Copper "T" Bar for S/Off Insulators or L/A's to HV Cables or HVABC | 3  |        |  |  |   |
|       |                     |  | 152482 | Lug Crimp Bimetal 185mm <sup>2</sup> M12                           | 3  |        |  |  |   |
|       |                     |  | 2A     | 323314   | Crossarm Strap Mk14  | 4      |  |  |   |

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TITLE  
NMS HVABC DEAD END  
MATERIALS LIST  
OBSOLETE

SCALE  
NTS

A4

REVISION  
A

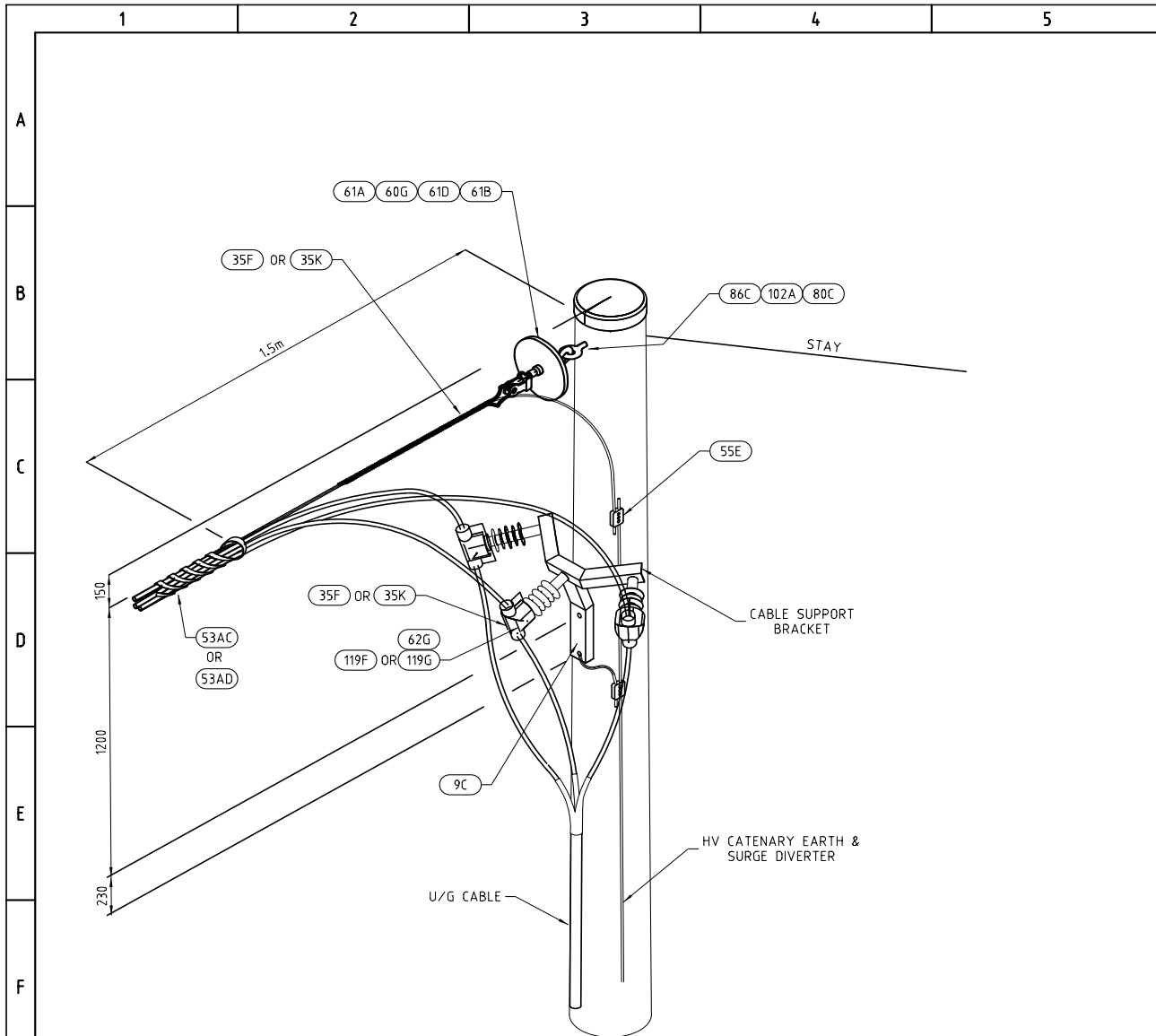
|               |                  |
|---------------|------------------|
| DRAWN         | CS PRO-SOLUTIONS |
| DESIGNED BY   | ELECTRO          |
| CHECKED BY    | H.WESTBURY       |
| APPROVED BY   |                  |
| DATE APPROVED | 27/MAY/19        |

D - OHC - C057 - SD - 002

ALTERATIONS

ORIGINAL ISSUE


### 3.20 NMS HVABC Dead End – Underground Cable Transition (Obsolete)




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APL Nos:  
DEC/HVABC11.185/PLM  
DE/HVABC22.35UG/3/PLM  
DE/HVABC22.185UG/3/PLM

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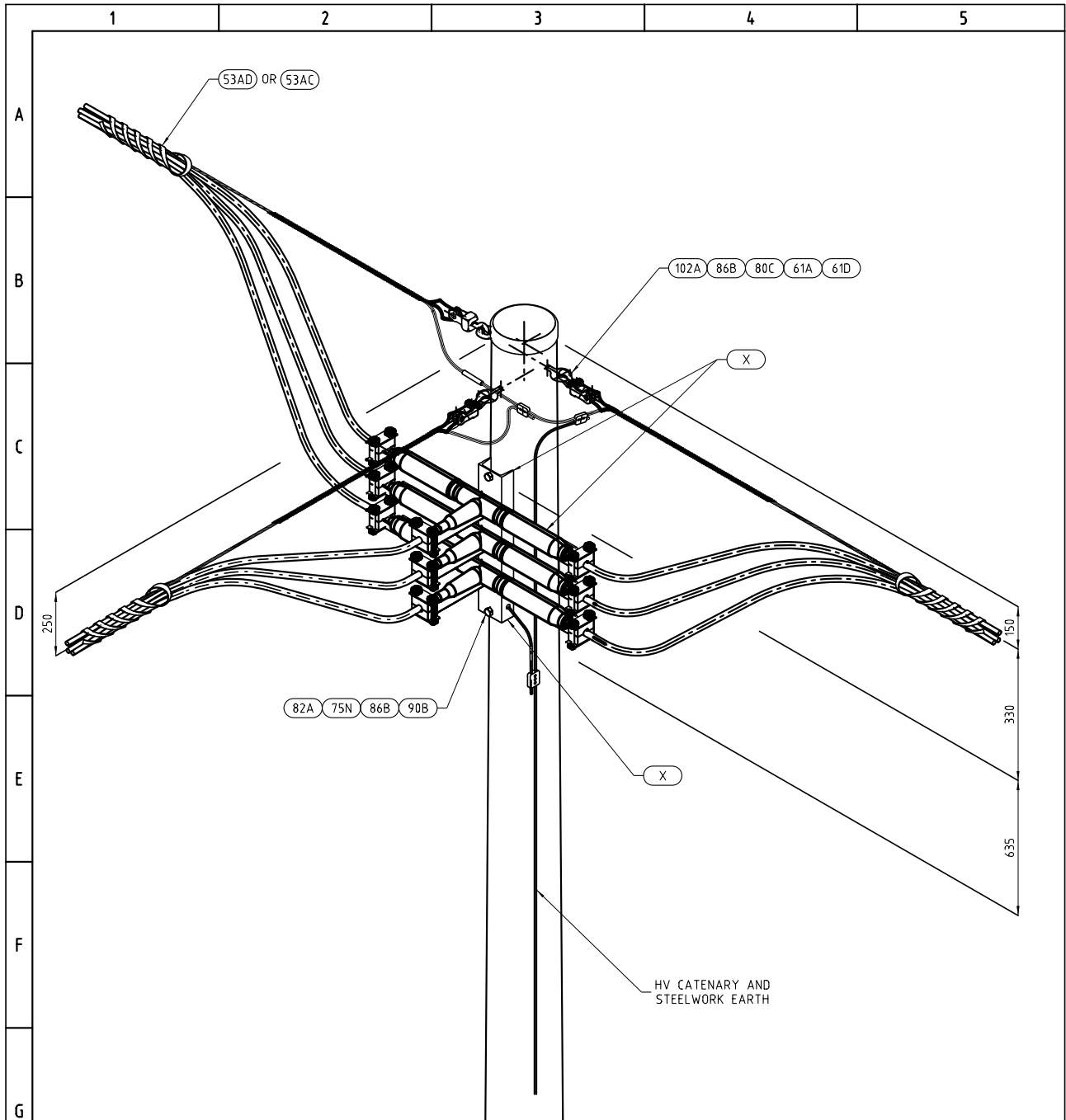
|             |                |   |  |   |  |   |  |
|-------------|----------------|---|--|---|--|---|--|
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|             |                |   |  | TITLE   |  | SCALE   |  |
|             |                |   |  | NMS HVABC DEAD END UG CABLE TRANSITION  |  | NTS   |  |
|             |                |   |  | OBSOLETE  |  | A4  |  |
|             |                |   |  | D - OHC - C058 - SD - 001   |  | REVISION  |  |
|             |                |   |  | A   |  |   |  |

NMS HVABC Dead End – Underground Transition – Material List (Obsolete)

|        |  |  |                                  |  |  |  |        |  |   |   |                 |   |  |                         |  |
|--------|--|--|----------------------------------|--|--|--|--------|--|---|---|-----------------|---|--|-------------------------|--|
|        |  | 1  |                                  | 2  |  | 3  |        | 4  |   | 5 |                 |   |  |                         |  |
| A      | DEC/HVABC11.185/PLM  | S  | 119F                             | 225772   | Lightning Arrester (NOT L/L TESTED) ABB 11kV 10kA c/w bird cap & M12 studs |  |        |  | 3 |   |                 |   |  |                         |  |
|        |  |  | 120B                             | 149117   | Termination kit 185mm <sup>2</sup> 22kV HVABC                              |  |        |  | 1 |   |                 |   |  |                         |  |
|        |  |  | 53AB                             | 149112   | Cond Term Hel 19/3.65 catenary for 150/185 HVABC                           |  |        |  | 1 |   |                 |   |  |                         |  |
|        |  |  | 53AD                             | 149121   | Bundled restraint 185mm <sup>2</sup> 22kV HVABC                            |  |        |  | 1 |   |                 |   |  |                         |  |
|        |  |  | 55E                              | 144955   | Parallel groove clamp (7.5-17.5mm Bi metal)                                |  |        |  | 1 |   |                 |   |  |                         |  |
|        |  |  | 61A                              | 322056   | Ball Clevis & Pin 16mm   |  |        |  | 1 |   |                 |   |  |                         |  |
|        |  |  | 61B                              | 322386   | Socket Termination 16mm  |  |        |  | 1 |   |                 |   |  |                         |  |
|        |  |  | 73F                              | 32191  | Bolt Hex M10 X 100   |  |        |  | 3 |   |                 |   |  |                         |  |
|        |  |  | 75P                              | 32289  | Bolt Hex M16 X 375   |  |        |  | 2 |   |                 |   |  |                         |  |
|        |  |  | 80C                              | 37260  | Bolt Eye M20 X 325   |  |        |  | 1 |   |                 |   |  |                         |  |
| B      |  |  | 9C                               | 322063   | Standoff insulator bracket for u/g cables                                  |  |        |  | 1 |   |                 |   |  |                         |  |
|        |  |  | #N/A                             | 40439  | Nut M10  |  |        |  | 6 |   |                 |   |  |                         |  |
|        |  |  | 303569                           | Copper "T" Bar for S/Off Insulators or L/A's to HV Cables or HVABC |  |  |        | 3  |   |   |                 |   |  |                         |  |
|        |  |  | 152482                           | Lug Crimp Bimetal 185mm <sup>2</sup> M12                           |  |  |        | 3  |   |   |                 |   |  |                         |  |
|        |  |  | C                                | DE/HVABC22.35UG/3  | S  | 119G   | 225773 | Lightning Arrester (NOT L/L TESTED) ABB 22kV 10kA c/w bird cap & M12 studs |   |   |                 | 3 |  |                         |  |
|        |  |  |                                  |  |  | 120A   | 149116 | Termination kit 35mm <sup>2</sup> 22kV HVABC                               |   |   |                 | 1 |  |                         |  |
|        |  |  |                                  |  |  | 35F  | 152476 | Lug Crimp Bimetal 35mm <sup>2</sup> M12                                    |   |   |                 | 3 |  |                         |  |
|        |  |  |                                  |  |  | 53AA   | 149111 | Cond Term Hel 6/4.75 7/1.60 or 7/5.00 catenary for 35/50 HVABC             |   |   |                 | 1 |  |                         |  |
|        |  |  |                                  |  |  | 53AC   | 149122 | Bundled restraint 35mm <sup>2</sup> 22kV HVABC                             |   |   |                 | 1 |  |                         |  |
|        |  |  |                                  |  |  | 55E  | 144955 | Parallel groove clamp (7.5-17.5mm Bi metal)                                |   |   |                 | 1 |  |                         |  |
| 60G    | 321260   | Insulator Disc Porcelain 16mm 70kN 146mm                       |                                  |  |  | 1  |        |  |   |   |                 |   |  |                         |  |
| 61A    | 322056   | Ball Clevis & Pin 16mm   |                                  |  |  | 1  |        |  |   |   |                 |   |  |                         |  |
| 61B    | 322386   | Socket Termination 16mm  |                                  |  |  | 1  |        |  |   |   |                 |   |  |                         |  |
| 61D    | 322090   | Kink Pin 16mm  |                                  |  |  | 1  |        |  |   |   |                 |   |  |                         |  |
| D      |  |  | 80C                              | 37260  | Bolt Eye M20 X 325   |  |        |  | 1 |   |                 |   |  |                         |  |
|        |  |  | 82B                              | 40442  | Nut M20  |  |        |  | 1 |   |                 |   |  |                         |  |
|        |  |  | 86C                              | 65159  | Washer Els 20  |  |        |  | 1 |   |                 |   |  |                         |  |
|        |  |  | 9C                               | 322063   | Standoff insulator bracket for u/g cables                                  |  |        |  | 1 |   |                 |   |  |                         |  |
|        |  |  | #N/A                             | 303569   | Copper "T" Bar for S/Off Insulators or L/A's to HV Cables or HVABC         |  |        |  | 3 |   |                 |   |  |                         |  |
|        |  |  | E                                | DE/HVABC22.35/3/PLM  | S  | 3  | 323310 | Strain Plate Mk10  |   |   |                 | 3 |  |                         |  |
|        |  |  |                                  |  |  | 4  | 323311 | L Bracket Mk11   |   |   |                 | 2 |  |                         |  |
|        |  |  |                                  |  |  | 119G   | 225773 | Lightning Arrester (NOT L/L TESTED) ABB 22kV 10kA c/w bird cap & M12 studs |   |   |                 | 3 |  |                         |  |
|        |  |  |                                  |  |  | 120A   | 149116 | Termination kit 35mm <sup>2</sup> 22kV HVABC                               |   |   |                 | 1 |  |                         |  |
|        |  |  |                                  |  |  | 1E   | 323305 | Crossarm Mk5   |   |   |                 | 2 |  |                         |  |
| 35F    | 152476   | Lug Crimp Bimetal 35mm <sup>2</sup> M12                        |                                  |  |  | 3  |        |  |   |   |                 |   |  |                         |  |
| 53AA   | 149111   | Cond Term Hel 6/4.75 7/1.60 or 7/5.00 catenary for 35/50 HVABC |                                  |  |  | 1  |        |  |   |   |                 |   |  |                         |  |
| 53AC   | 149122   | Bundled restraint 35mm <sup>2</sup> 22kV HVABC                 |                                  |  |  | 1  |        |  |   |   |                 |   |  |                         |  |
| 60G    | 321260   | Insulator Disc Porcelain 16mm 70kN 146mm                       |                                  |  |  | 1  |        |  |   |   |                 |   |  |                         |  |
| 60H    | 320735   | Insulator Raychem standoff 24kV set of 3                       |                                  |  |  | 1  |        |  |   |   |                 |   |  |                         |  |
| F      |  |  | 61A                              | 322056   | Ball Clevis & Pin 16mm   |  |        |  | 1 |   |                 |   |  |                         |  |
|        |  |  | 61B                              | 322386   | Socket Termination 16mm  |  |        |  | 1 |   |                 |   |  |                         |  |
|        |  |  | 61D                              | 322090   | Kink Pin 16mm  |  |        |  | 1 |   |                 |   |  |                         |  |
|        |  |  | 73F                              | 32191  | Bolt Hex M10 X 100   |  |        |  | 3 |   |                 |   |  |                         |  |
|        |  |  | 75M                              | 32287  | Bolt Hex M16 X 325   |  |        |  | 2 |   |                 |   |  |                         |  |
|        |  |  | 75Z                              | 32261  | Bolt Hex M16 X 45  |  |        |  | 3 |   |                 |   |  |                         |  |
|        |  |  | 80C                              | 37260  | Bolt Eye M20 X 325   |  |        |  | 1 |   |                 |   |  |                         |  |
|        |  |  | 82B                              | 40442  | Nut M20  |  |        |  | 1 |   |                 |   |  |                         |  |
|        |  |  | 86C                              | 65159  | Washer Els 20  |  |        |  | 1 |   |                 |   |  |                         |  |
|        |  |  | G                                |  |  | #N/A   | 40439  | Nut M10  |   |   |                 | 6 |  |                         |  |
| 303569 | Copper "T" Bar for S/Off Insulators or L/A's to HV Cables or HVABC |  |                                  |  |  | 3  |        |  |   |   |                 |   |  |                         |  |
| 2A     | 323314   | Crossarm Strap Mk14  |                                  |  |  | 4  |        |  |   |   |                 |   |  |                         |  |
| H      | <p>- OBSOLETE</p> <p>- FOR REFERENCE ONLY</p>                      |  |                                  |  |  |  |        |  |   |   |                 |   |  |                         |  |
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|        |  |  |                                  |  |  | <p>TITLE<br/>NMS HVABC DEAD END UG CABLE TRANSITION<br/>MATERIALS LIST<br/>OBSOLETE</p>  |        |  |   |   |                 |   |  | <p>A4</p>               |  |
|        |  |  |                                  |  |  | <p>DRAWN</p>   |        |  |   |   |                 |   |  | <p>CS PRO-SOLUTIONS</p> |  |
|        |  |  |                                  |  |  | <p>DESIGNED BY</p>   |        |  |   |   |                 |   |  | <p>ELECTRO</p>          |  |
|        |  |  |                                  |  |  | <p>CHECKED BY</p>  |        |  |   |   |                 |   |  | <p>H.WESTBURY</p>       |  |
|        |  |  | <p>APPROVED BY</p>               |  |  |  |        |  |   |   | <p>REVISION</p> |   |  |                         |  |
|        |  |  | <p>DATE APPROVED</p>             |  |  |  |        |  |   |   | <p>A</p>        |   |  |                         |  |
|        |  |  | <p>D - OHC - C058 - SD - 002</p> |  |  |  |        |  |   |   |                 |   |  |                         |  |




### 3.21 NMS HVABC Strain with Tee-Off (Obsolete)

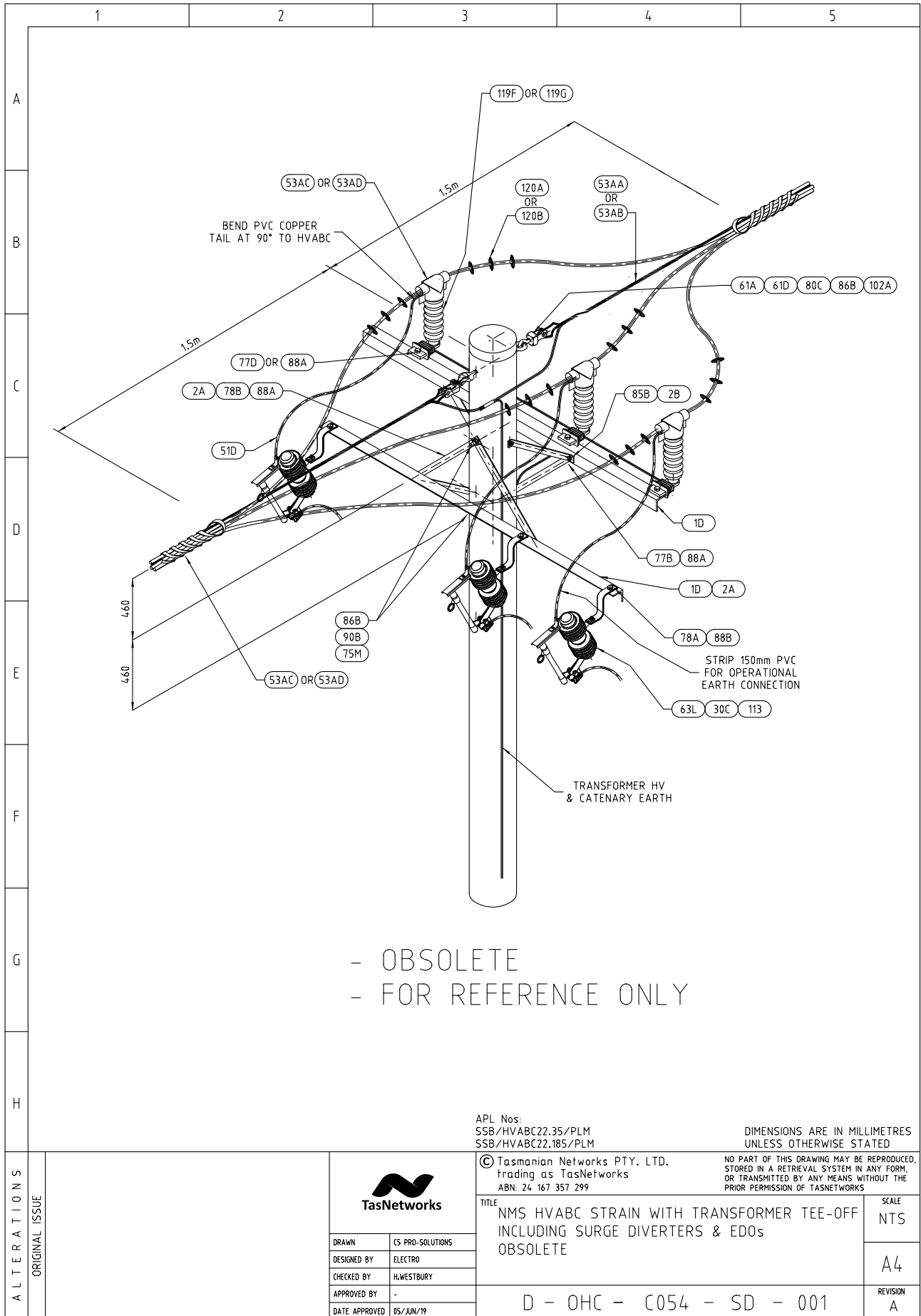


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- FOR REFERENCE ONLY


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|               |                | <b>TasNetworks</b>  |                  | TITLE   |  |       |
|               |                | DESIGNED BY   | CS PRO-SOLUTIONS | NMS HVABC STRAIN WITH TEE - OFF<br>OBSOLETE                                     |  | SCALE |
|               |                | CHECKED BY  | ELECTRO          |   |  | NTS   |
|               |                | APPROVED BY   | H.WESTBURY       |   |  | A4    |
| DATE APPROVED | -              |   | REVISION         |   |  |       |
|               |                |   |                  | A   |  |       |
|               |                |   |                  | D - OHC - C065 - SD - 001   |  |       |

### 3.22 NMS HVABC Strain, Transformer TeeOff with SDs & EDOs (Obsolete)



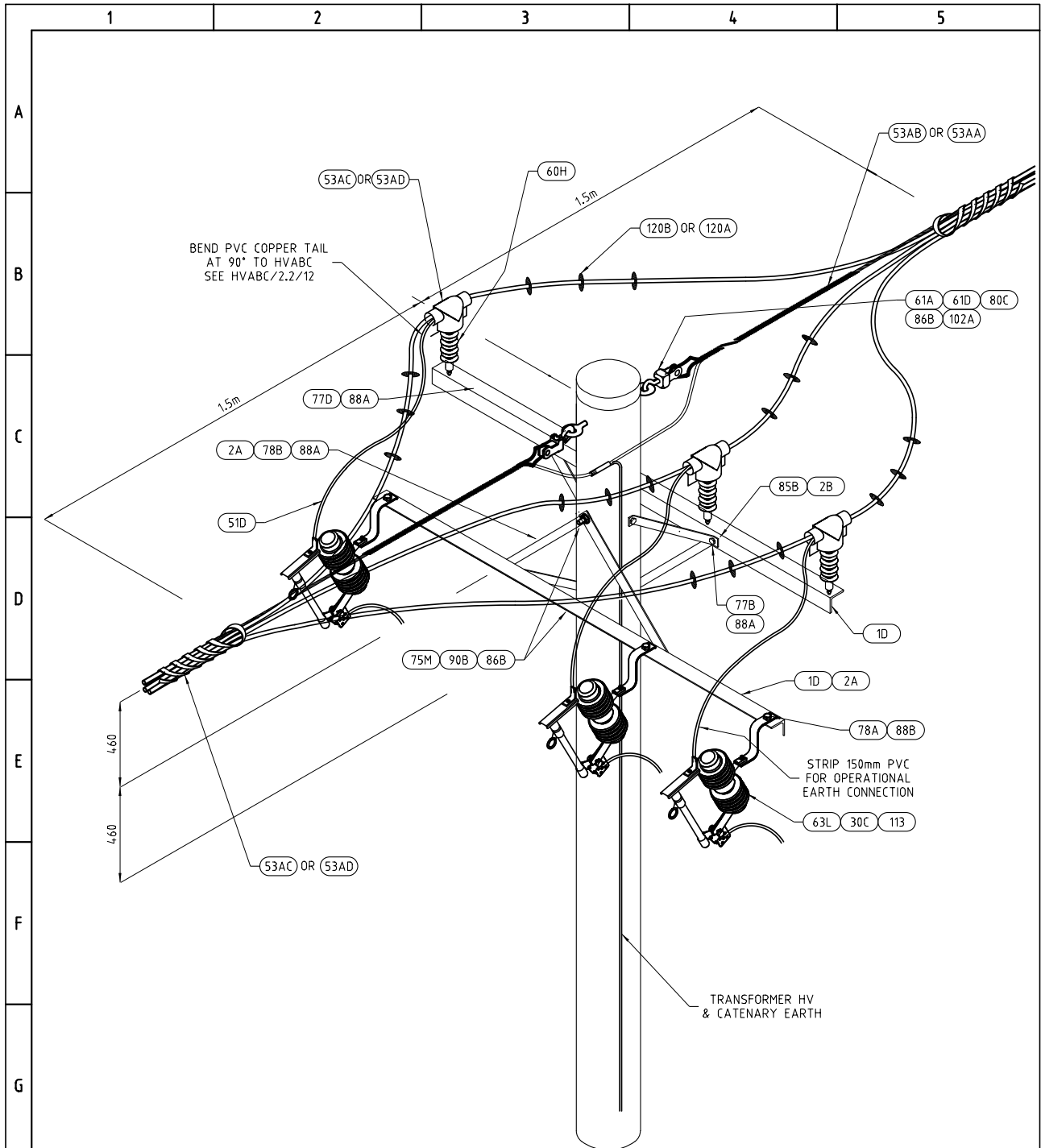
NMS HVABC Strain, Transformer Tee-Off, SDs and EDOs – Material List (Obsolete)

|             |                |   |          |  |                        |  |                        |   |  |               |  |
|-------------|----------------|---|----------|--|------------------------|--|------------------------|---|--|---------------|--|
|             |                | 1   |          | 2  |                        | 3  |                        | 4   |  | 5             |  |
| A           | Unit Assembly  | Store Type  | Item Ref | Stock Item   | Stock Item Description | Quantity   |                        |   |  |               |  |
|             |                |   |          |  |                        |  | SSB/HVABC22.35/3/PLM S |   |  |               |  |
| B           |                |   |          |  |                        |  |                        |   |  |               |  |
|             |                |   |          |  |                        |  |                        |   |  |               |  |
| C           |                |   |          |  |                        |  |                        |   |  |               |  |
|             |                |   |          |  |                        |  |                        |   |  |               |  |
| D           |                |   |          |  |                        |  |                        |   |  |               |  |
|             |                |   |          |  |                        |  |                        |   |  |               |  |
| E           |                |   |          |  |                        |  |                        |   |  |               |  |
|             |                |   |          |  |                        |  |                        |   |  |               |  |
| F           |                |   |          |  |                        |  |                        |   |  |               |  |
|             |                |   |          |  |                        |  |                        |   |  |               |  |
| G           |                |   |          |  |                        |  |                        |   |  |               |  |
|             |                |   |          |  |                        |  |                        |   |  |               |  |
| H           |                |   |          |  |                        |  |                        |   |  |               |  |
|             |                |   |          |  |                        |  |                        |   |  |               |  |
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|             |                | D - OHC - C054 - SD - 002   |          |  |                        |  |                        |   |  |               |  |

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### 3.23 NMS HVABC Strain, Transformer Tee Off with EDOs (Obsolete)

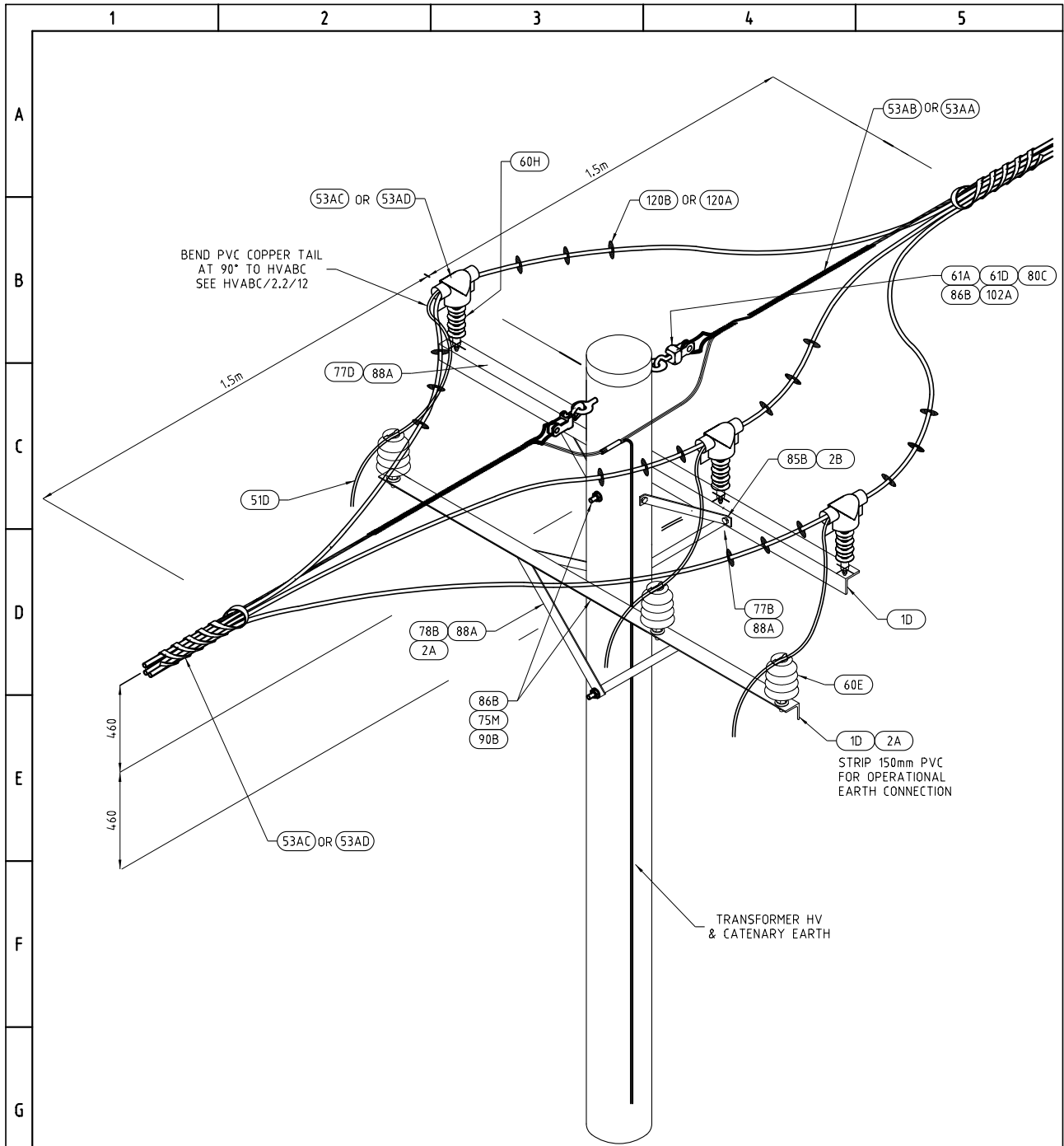


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|               |                |   |                  |  |  |   |  |
|---------------|----------------|---|------------------|--|--|---|--|
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|               |                |   |                  | TITLE<br>NMS HVABC STRAIN WITH TRANSFORMER<br>TEE - OFF INCLUDING EDOs<br>OBSOLETE |  | SCALE<br>NTS  |  |
|               |                | DRAWN   | CS PRO-SOLUTIONS |  |  | A4  |  |
|               |                | DESIGNED BY   | ELECTRO          |  |  | REVISION<br>A   |  |
|               |                | CHECKED BY  | H.WESTBURY       |  |  |   |  |
| APPROVED BY   | -              |   |                  |  |  |   |  |
| DATE APPROVED | 06/JUN/19      |   |                  | D - OHC - C068 - SD - 001  |  |   |  |

### 3.24 NMS HVABC Strain, Transformer Tee-Off (Obsolete)

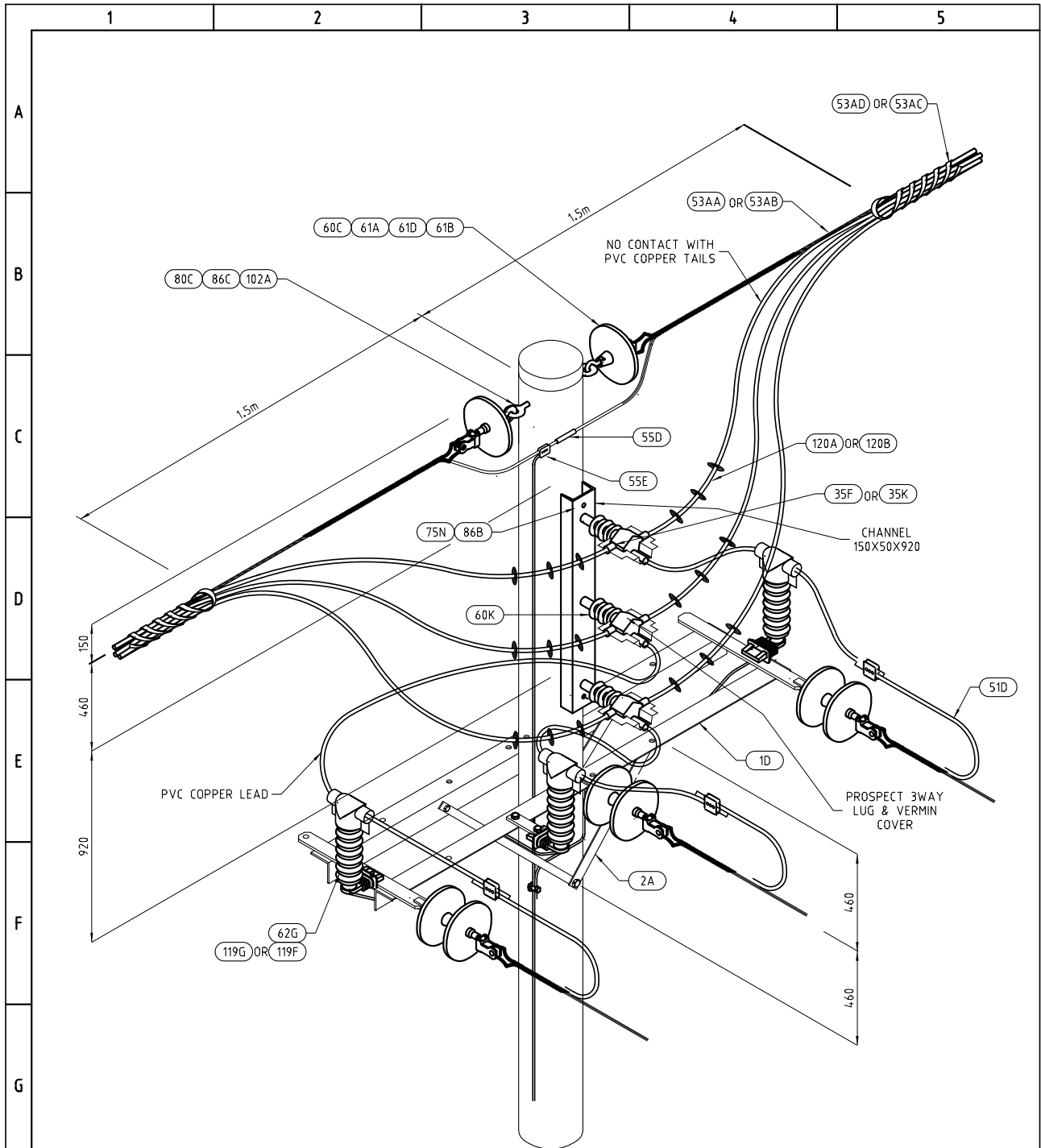


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|               |                |   |  |  |  |   |  |    |  |
|---------------|----------------|---|--|--|--|---|--|----|--|
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|               |                |   |  | TITLE<br>NMS HVABC STRAIN WITH TRANSFORMER<br>TEE - OFF EXCLUDING EDOs & SURGE DIVERTERS<br>OBSOLETE |  | SCALE<br>NTS  |  |    |  |
|               |                | DRAWN   |  | CS PRO-SOLUTIONS   |  |   |  | A4 |  |
|               |                | DESIGNED BY   |  | ELECTRO  |  |   |  |    |  |
|               |                | CHECKED BY  |  | H.WESTBURY   |  |   |  |    |  |
| APPROVED BY   |                | -   |  |  |  |   |  |    |  |
| DATE APPROVED |                | 06/JUN/19   |  | D - OHC - C069 - SD - 001  |  | REVISION<br>A   |  |    |  |

### 3.25 NMS HVABC, Strain Vertical Tee-Off to Open Wire (Obsolete)

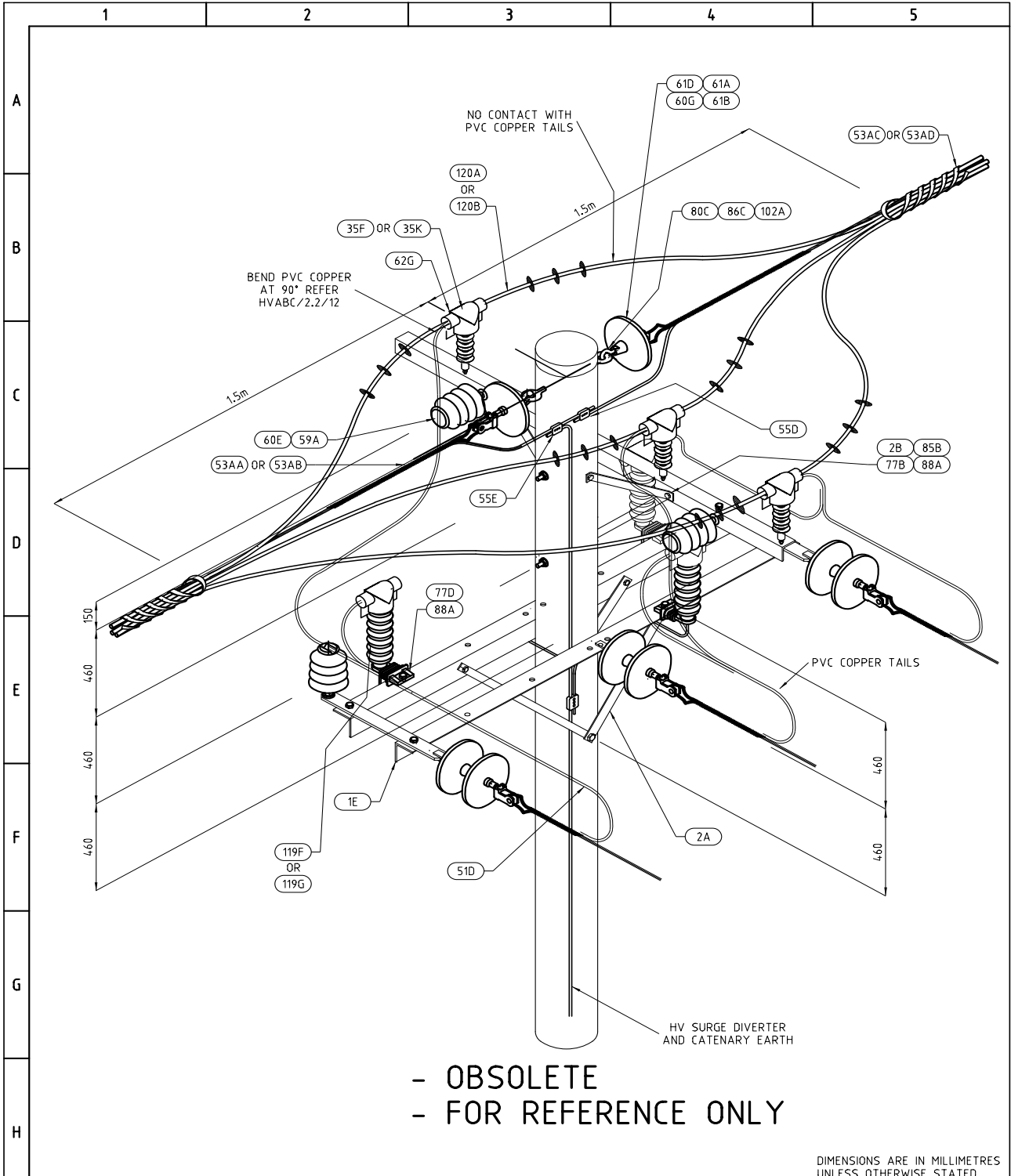


- OBSOLETE  
- FOR REFERENCE ONLY


DIMENSIONS ARE IN MILLIMETRES  
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|             |                | TITLE<br>NMS HVABC STRAIN WITH VERTICAL TEE - OFF<br>TO OPEN WIRE<br>OBSOLETE       |                  |   |   | SCALE<br>NTS  |    |
|             |                | DRAWN   | CS PRO-SOLUTIONS |   |   |               | A4 |
|             |                | DESIGNED BY   | ELECTRO          |   |   |               |    |
|             |                | CHECKED BY  | H.WESTBURY       |   |   |               |    |
| APPROVED BY | -              |   |                  |   |   |               |    |
|             |                | DATE APPROVED   | 06/JUN/19        | D - OHC - C067 - SD - 001   |   | REVISION<br>A |    |

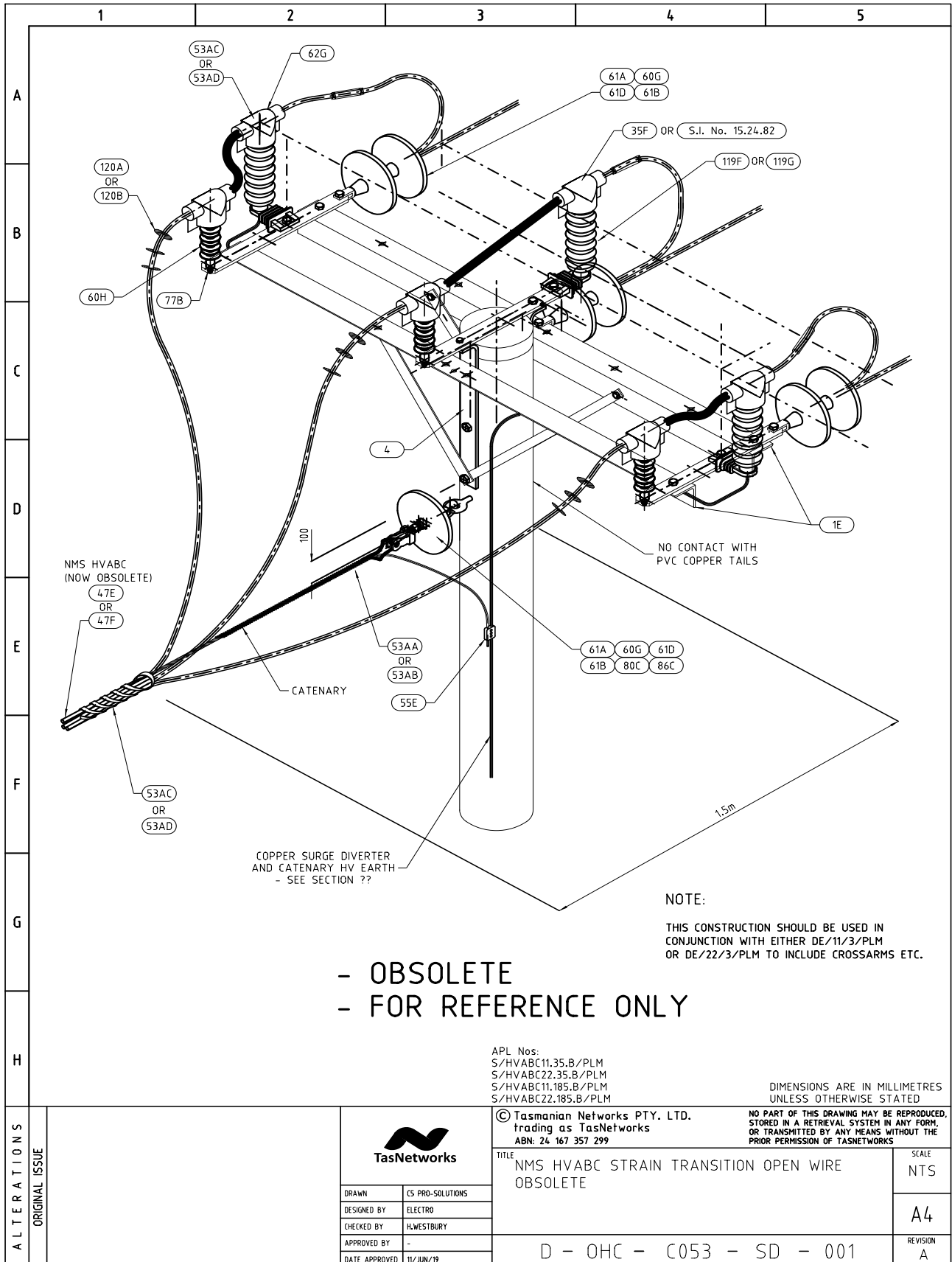
### 3.26 NMS HVABC Strain, Tee-Off to Open Wire (Obsolete)



DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED


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|             |                |   |  | TITLE   |  | SCALE   |  |
|             |                |   |  | NMS HVABC STRAIN WITH OPEN WIRE TEE - OFF<br>OBSOLETE                           |  | NTS   |  |
|             |                |   |  | D - OHC - C066 - SD - 001   |  | A4  |  |
|             |                |   |  | DATE APPROVED 11/JUN/19   |  | REVISION<br>A   |  |
|             |                | DRAWN CS PRO-SOLUTIONS  |  |   |  |   |  |
|             |                | DESIGNED BY ELECTRO   |  |   |  |   |  |
|             |                | CHECKED BY H.WESTBURY   |  |   |  |   |  |
|             |                | APPROVED BY -   |  |   |  |   |  |

### 3.27 NMS HVABC Open Wire Right Angle Strain Transition (Obsolete)



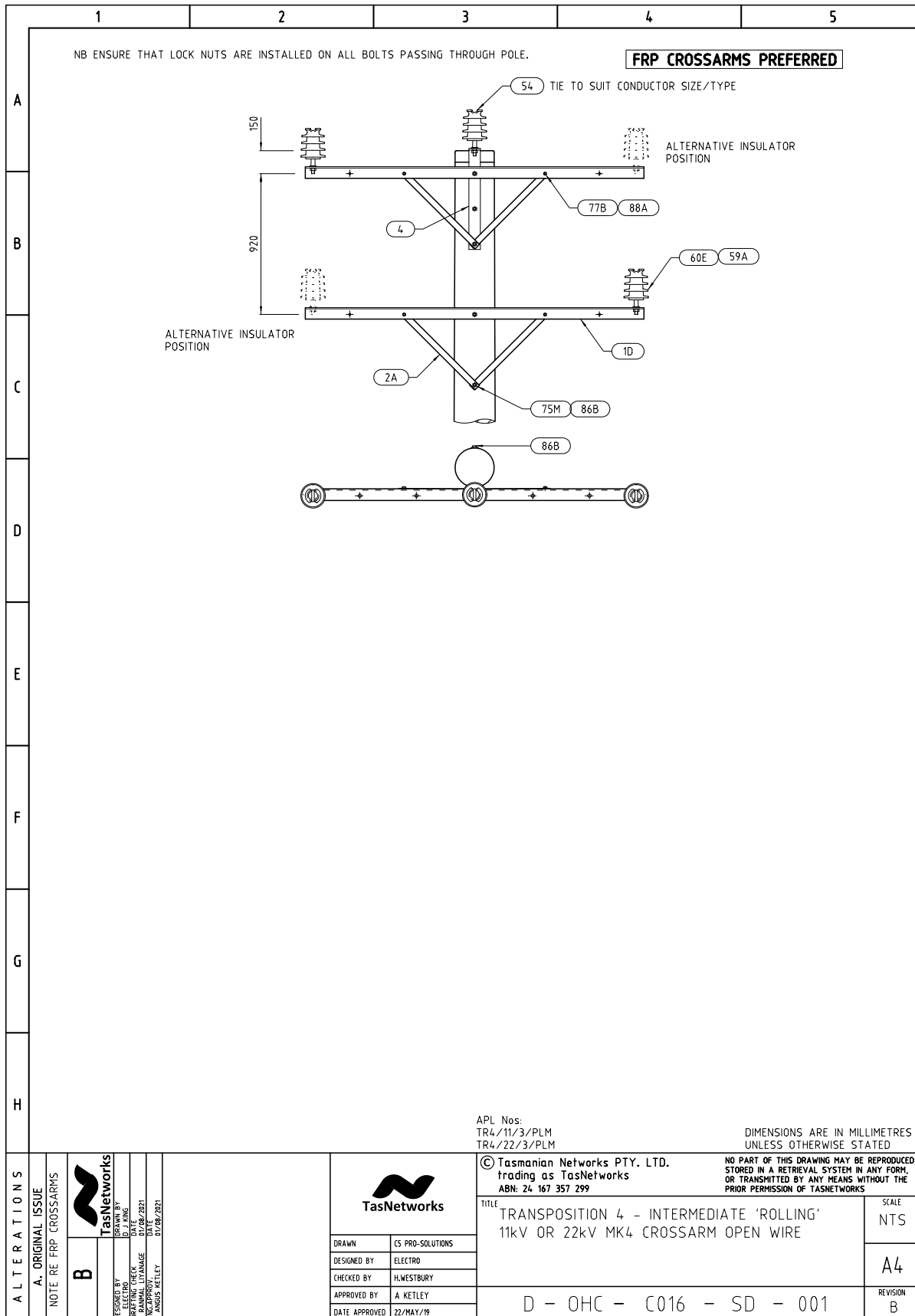


NMS HVABC Open Wire Right Angle Strain Transition – Material List (Obsolete)


|   | 1  | 2   | 3      | 4   | 5  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|---|--|---|--------|---|--|--|------------|------------|---|--|----------|--------------------|---|------|--------|--|---|------|--------|--|---|-----|--------|---|---|-----|--------|---|---|------|--------|--|---|------|--------|--|---|-----|--------|---|---|-----|--------|---|---|-----|--------|--|---|-----|--------|--|---|-----|--------|------------------------|---|-----|--------|-------------------------|---|-----|--------|---------------|---|-----|-------|--------------------|---|-----|-------|---------------------|---|-----|-------|--------------------|---|------|-------|---------|---|--|--|--------|--|---|---------------------|---|------|--------|--|---|------|--------|---|---|-----|--------|---|---|------|--------|--|---|------|--------|---|---|-----|--------|---|---|-----|--------|---|---|-----|--------|--|---|-----|--------|--|---|-----|--------|------------------------|---|-----|--------|-------------------------|---|-----|--------|---------------|---|-----|-------|--------------------|---|-----|-------|---------------------|---|-----|-------|--------------------|---|------|-------|---------|---|--|--|--------|--|---|--|--|--------|--|---|--------------------|---|------|--------|--|---|------|--------|--|---|-----|--------|---|---|-----|--------|---|---|------|--------|--|---|------|--------|--|---|-----|--------|---|---|-----|--------|---|---|-----|--------|--|---|-----|--------|--|---|-----|--------|------------------------|---|-----|--------|-------------------------|---|-----|--------|---------------|---|-----|-------|--------------------|---|-----|-------|---------------------|---|-----|-------|--------------------|---|------|-------|---------|---|--|--|--------|--|---|---------------------|---|------|--------|--|---|------|--------|---|---|-----|--------|---|---|------|--------|--|---|------|--------|---|---|-----|--------|---|---|-----|--------|---|---|-----|--------|--|---|-----|--------|--|---|-----|--------|------------------------|---|-----|--------|-------------------------|---|-----|--------|---------------|---|-----|-------|--------------------|---|-----|-------|---------------------|---|-----|-------|--------------------|---|------|-------|---------|---|--|--|--------|--|---|--|--|--------|--|---|
| A   | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Stock Item Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td rowspan="19">S/HVABC11.35.B/PLM</td> <td rowspan="19">S</td> <td>119F</td> <td>225772</td> <td>Lightning Arrester (NOT L.L TESTED) ABB 11kV 10kA c/w bird cap &amp; M12 studs</td> <td>3</td> </tr> <tr> <td>120A</td> <td>149116</td> <td>Termination kit 35mm<sup>2</sup> 22kV HVABC</td> <td>1</td> </tr> <tr> <td>35E</td> <td>141363</td> <td>Lug Crimp 70mm<sup>2</sup> binned copper</td> <td>3</td> </tr> <tr> <td>35F</td> <td>152476</td> <td>Lug Crimp Bimetal 35mm<sup>2</sup> M12</td> <td>3</td> </tr> <tr> <td>53AB</td> <td>149112</td> <td>Cond Term Hel 19/3.65 catenary for 150/185 HVABC</td> <td>1</td> </tr> <tr> <td>53AC</td> <td>149122</td> <td>Bundled restraint 35mm<sup>2</sup> 22kV HVABC</td> <td>1</td> </tr> <tr> <td>55C</td> <td>146618</td> <td>Dee Clamp for 7.5 to 16.25mm Dia. AL ACSR/GZ (19/2.00 Cu Tail) - 355mm Long</td> <td>1</td> </tr> <tr> <td>55E</td> <td>144955</td> <td>Parallel groove clamp (7.5-17.5mm Bi metal)</td> <td>1</td> </tr> <tr> <td>60G</td> <td>321260</td> <td>Insulator Disc Porcelain 16mm 70kN 146mm</td> <td>1</td> </tr> <tr> <td>60H</td> <td>320735</td> <td>Insulator Raychem standoff 24kV set of 3</td> <td>1</td> </tr> <tr> <td>61A</td> <td>322056</td> <td>Ball Clevis &amp; Pin 16mm</td> <td>1</td> </tr> <tr> <td>61B</td> <td>322386</td> <td>Socket Termination 16mm</td> <td>1</td> </tr> <tr> <td>61D</td> <td>322090</td> <td>Kink Pin 16mm</td> <td>1</td> </tr> <tr> <td>73F</td> <td>32191</td> <td>Bolt Hex M10 X 100</td> <td>3</td> </tr> <tr> <td>77B</td> <td>33771</td> <td>Bolt Tower M12 X 35</td> <td>3</td> </tr> <tr> <td>80C</td> <td>37260</td> <td>Bolt Eye M20 X 325</td> <td>1</td> </tr> <tr> <td>#N/A</td> <td>40439</td> <td>Nut M10</td> <td>6</td> </tr> <tr> <td></td> <td></td> <td>303569</td> <td>Copper "T" Bar for S/Off Insulators or L/A's to HV Cables or HVABC</td> <td>3</td> </tr> <tr> <td rowspan="19">S/HVABC11.185.B/PLM</td> <td rowspan="19">S</td> <td>119F</td> <td>225772</td> <td>Lightning Arrester (NOT L.L TESTED) ABB 11kV 10kA c/w bird cap &amp; M12 studs</td> <td>3</td> </tr> <tr> <td>120B</td> <td>149117</td> <td>Termination kit 185mm<sup>2</sup> 22kV HVABC</td> <td>1</td> </tr> <tr> <td>35E</td> <td>141363</td> <td>Lug Crimp 70mm<sup>2</sup> binned copper</td> <td>3</td> </tr> <tr> <td>53AB</td> <td>149112</td> <td>Cond Term Hel 19/3.65 catenary for 150/185 HVABC</td> <td>1</td> </tr> <tr> <td>53AD</td> <td>149121</td> <td>Bundled restraint 185mm<sup>2</sup> 22kV HVABC</td> <td>1</td> </tr> <tr> <td>55C</td> <td>146618</td> <td>Dee Clamp for 7.5 to 16.25mm Dia. 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AL ACSR/GZ (19/2.00 Cu Tail) - 355mm Long | 1 | 55E | 144955 | Parallel groove clamp (7.5-17.5mm Bi metal) | 1 | 60G | 321260 | Insulator Disc Porcelain 16mm 70kN 146mm | 1 | 60H | 320735 | Insulator Raychem standoff 24kV set of 3 | 1 | 61A | 322056 | Ball Clevis & Pin 16mm | 1 | 61B | 322386 | Socket Termination 16mm | 1 | 61D | 322090 | Kink Pin 16mm | 1 | 73F | 32191 | Bolt Hex M10 X 100 | 3 | 77B | 33771 | Bolt Tower M12 X 35 | 3 | 80C | 37260 | Bolt Eye M20 X 325 | 1 | #N/A | 40439 | Nut M10 | 6 |  |  | 303569 | Copper "T" Bar for S/Off Insulators or L/A's to HV Cables or HVABC | 3 | S/HVABC11.185.B/PLM | S | 119F | 225772 | Lightning Arrester (NOT L.L TESTED) ABB 11kV 10kA c/w bird cap & M12 studs | 3 | 120B | 149117 | Termination kit 185mm <sup>2</sup> 22kV HVABC | 1 | 35E | 141363 | Lug Crimp 70mm <sup>2</sup> binned copper | 3 | 53AB | 149112 | Cond Term Hel 19/3.65 catenary for 150/185 HVABC | 1 | 53AD | 149121 | Bundled restraint 185mm <sup>2</sup> 22kV HVABC | 1 | 55C | 146618 | Dee Clamp for 7.5 to 16.25mm Dia. AL ACSR/GZ (19/2.00 Cu Tail) - 355mm Long | 1 | 55E | 144955 | Parallel groove clamp (7.5-17.5mm Bi metal) | 1 | 60G | 321260 | Insulator Disc Porcelain 16mm 70kN 146mm | 1 | 60H | 320735 | Insulator Raychem standoff 24kV set of 3 | 1 | 61A | 322056 | Ball Clevis & Pin 16mm | 1 | 61B | 322386 | Socket Termination 16mm | 1 | 61D | 322090 | Kink Pin 16mm | 1 | 73F | 32191 | Bolt Hex M10 X 100 | 3 | 77B | 33771 | Bolt Tower M12 X 35 | 3 | 80C | 37260 | Bolt Eye M20 X 325 | 1 | #N/A | 40439 | Nut M10 | 6 |  |  | 303569 | Copper "T" Bar for S/Off Insulators or L/A's to HV Cables or HVABC | 3 |  |  | 152482 | Lug Crimp Bimetal 185mm <sup>2</sup> M12 | 6 | S/HVABC22.35.B/PLM | S | 119G | 225773 | Lightning Arrester (NOT L.L TESTED) ABB 22kV 10kA c/w bird cap & M12 studs | 3 | 120A | 149116 | Termination kit 35mm <sup>2</sup> 22kV HVABC | 1 | 35E | 141363 | Lug Crimp 70mm <sup>2</sup> binned copper | 3 | 35F | 152476 | Lug Crimp Bimetal 35mm <sup>2</sup> M12 | 3 | 53AA | 149111 | Cond Term Hel 6/4.75 7/1.60 or 7/5.00 catenary for 35/50 HVABC | 1 | 53AC | 149122 | Bundled restraint 35mm <sup>2</sup> 22kV HVABC | 1 | 55C | 146618 | Dee Clamp for 7.5 to 16.25mm Dia. AL ACSR/GZ (19/2.00 Cu Tail) - 355mm Long | 1 | 55E | 144955 | Parallel groove clamp (7.5-17.5mm Bi metal) | 1 | 60G | 321260 | Insulator Disc Porcelain 16mm 70kN 146mm | 1 | 60H | 320735 | Insulator Raychem standoff 24kV set of 3 | 1 | 61A | 322056 | Ball Clevis & Pin 16mm | 1 | 61B | 322386 | Socket Termination 16mm | 1 | 61D | 322090 | Kink Pin 16mm | 1 | 73F | 32191 | Bolt Hex M10 X 100 | 3 | 77B | 33771 | Bolt Tower M12 X 35 | 3 | 80C | 37260 | Bolt Eye M20 X 325 | 1 | #N/A | 40439 | Nut M10 | 6 |  |  | 303569 | Copper "T" Bar for S/Off Insulators or L/A's to HV Cables or HVABC | 3 | S/HVABC22.185.B/PLM | S | 119G | 225773 | Lightning Arrester (NOT L.L TESTED) ABB 22kV 10kA c/w bird cap & M12 studs | 3 | 120B | 149117 | Termination kit 185mm <sup>2</sup> 22kV HVABC | 1 | 35E | 141363 | Lug Crimp 70mm <sup>2</sup> binned copper | 3 | 53AB | 149112 | Cond Term Hel 19/3.65 catenary for 150/185 HVABC | 1 | 53AD | 149121 | Bundled restraint 185mm <sup>2</sup> 22kV HVABC | 1 | 55C | 146618 | Dee Clamp for 7.5 to 16.25mm Dia. AL ACSR/GZ (19/2.00 Cu Tail) - 355mm Long | 1 | 55E | 144955 | Parallel groove clamp (7.5-17.5mm Bi metal) | 1 | 60G | 321260 | Insulator Disc Porcelain 16mm 70kN 146mm | 1 | 60H | 320735 | Insulator Raychem standoff 24kV set of 3 | 1 | 61A | 322056 | Ball Clevis & Pin 16mm | 1 | 61B | 322386 | Socket Termination 16mm | 1 | 61D | 322090 | Kink Pin 16mm | 1 | 73F | 32191 | Bolt Hex M10 X 100 | 3 | 77B | 33771 | Bolt Tower M12 X 35 | 3 | 80C | 37260 | Bolt Eye M20 X 325 | 1 | #N/A | 40439 | Nut M10 | 6 |  |  | 303569 | Copper "T" Bar for S/Off Insulators or L/A's to HV Cables or HVABC | 3 |  |  | 152482 | Lug Crimp Bimetal 185mm <sup>2</sup> M12 | 6 |
| Unit Assembly   |  |   |        |   |  | Store Type   | Item Ref   | Stock Item | Stock Item Description  | Quantity   |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| S/HVABC11.35.B/PLM  |  |   |        |   |  | S  | 119F       | 225772     | Lightning Arrester (NOT L.L TESTED) ABB 11kV 10kA c/w bird cap & M12 studs  | 3  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  |   |        |   |  |  | 120A       | 149116     | Termination kit 35mm <sup>2</sup> 22kV HVABC                                | 1  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  |   |        |   |  |  | 35E        | 141363     | Lug Crimp 70mm <sup>2</sup> binned copper                                   | 3  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  |   |        |   |  |  | 35F        | 152476     | Lug Crimp Bimetal 35mm <sup>2</sup> M12                                     | 3  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  |   |        |   |  |  | 53AB       | 149112     | Cond Term Hel 19/3.65 catenary for 150/185 HVABC                            | 1  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  |   |        |   |  |  | 53AC       | 149122     | Bundled restraint 35mm <sup>2</sup> 22kV HVABC                              | 1  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  |   |        |   |  |  | 55C        | 146618     | Dee Clamp for 7.5 to 16.25mm Dia. AL ACSR/GZ (19/2.00 Cu Tail) - 355mm Long | 1  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  |   |        |   |  |  | 55E        | 144955     | Parallel groove clamp (7.5-17.5mm Bi metal)                                 | 1  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  |   |        |   |  |  | 60G        | 321260     | Insulator Disc Porcelain 16mm 70kN 146mm                                    | 1  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  |   |        |   |  |  | 60H        | 320735     | Insulator Raychem standoff 24kV set of 3                                    | 1  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  |   |        |   |  |  | 61A        | 322056     | Ball Clevis & Pin 16mm  | 1  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  |   |        |   |  |  | 61B        | 322386     | Socket Termination 16mm   | 1  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  |   |        |   |  |  | 61D        | 322090     | Kink Pin 16mm   | 1  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  |   |        |   |  |  | 73F        | 32191      | Bolt Hex M10 X 100  | 3  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  |   |        |   |  |  | 77B        | 33771      | Bolt Tower M12 X 35   | 3  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  |   |        |   |  |  | 80C        | 37260      | Bolt Eye M20 X 325  | 1  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  |   |        |   |  |  | #N/A       | 40439      | Nut M10   | 6  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  |   |        |   |  |  |            |            | 303569  | Copper "T" Bar for S/Off Insulators or L/A's to HV Cables or HVABC | 3        |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   | S/HVABC11.185.B/PLM  | S   | 119F   | 225772  | Lightning Arrester (NOT L.L TESTED) ABB 11kV 10kA c/w bird cap & M12 studs |  | 3          |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 120B  |  |   | 149117 | Termination kit 185mm <sup>2</sup> 22kV HVABC                                   | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 35E   |  |   | 141363 | Lug Crimp 70mm <sup>2</sup> binned copper                                       | 3  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 53AB  |  |   | 149112 | Cond Term Hel 19/3.65 catenary for 150/185 HVABC                                | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 53AD  |  |   | 149121 | Bundled restraint 185mm <sup>2</sup> 22kV HVABC                                 | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 55C   |  |   | 146618 | Dee Clamp for 7.5 to 16.25mm Dia. AL ACSR/GZ (19/2.00 Cu Tail) - 355mm Long     | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 55E   |  |   | 144955 | Parallel groove clamp (7.5-17.5mm Bi metal)                                     | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 60G   |  |   | 321260 | Insulator Disc Porcelain 16mm 70kN 146mm  | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 60H   |  |   | 320735 | Insulator Raychem standoff 24kV set of 3  | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 61A   |  |   | 322056 | Ball Clevis & Pin 16mm  | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 61B   |  |   | 322386 | Socket Termination 16mm   | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 61D   |  |   | 322090 | Kink Pin 16mm   | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 73F   |  |   | 32191  | Bolt Hex M10 X 100  | 3  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 77B   |  |   | 33771  | Bolt Tower M12 X 35   | 3  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 80C   |  |   | 37260  | Bolt Eye M20 X 325  | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| #N/A  |  |   | 40439  | Nut M10   | 6  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  |   |        | 303569  | Copper "T" Bar for S/Off Insulators or L/A's to HV Cables or HVABC         | 3  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  |   |        | 152482  | Lug Crimp Bimetal 185mm <sup>2</sup> M12                                   | 6  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| S/HVABC22.35.B/PLM  |  |   | S      | 119G  | 225773   | Lightning Arrester (NOT L.L TESTED) ABB 22kV 10kA c/w bird cap & M12 studs | 3          |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   | 120A   | 149116  |        | Termination kit 35mm <sup>2</sup> 22kV HVABC                                    | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   | 35E  | 141363  |        | Lug Crimp 70mm <sup>2</sup> binned copper                                       | 3  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   | 35F  | 152476  |        | Lug Crimp Bimetal 35mm <sup>2</sup> M12   | 3  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   | 53AA   | 149111  |        | Cond Term Hel 6/4.75 7/1.60 or 7/5.00 catenary for 35/50 HVABC                  | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   | 53AC   | 149122  |        | Bundled restraint 35mm <sup>2</sup> 22kV HVABC                                  | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   | 55C  | 146618  |        | Dee Clamp for 7.5 to 16.25mm Dia. AL ACSR/GZ (19/2.00 Cu Tail) - 355mm Long     | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   | 55E  | 144955  |        | Parallel groove clamp (7.5-17.5mm Bi metal)                                     | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   | 60G  | 321260  |        | Insulator Disc Porcelain 16mm 70kN 146mm  | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   | 60H  | 320735  |        | Insulator Raychem standoff 24kV set of 3  | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   | 61A  | 322056  |        | Ball Clevis & Pin 16mm  | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   | 61B  | 322386  |        | Socket Termination 16mm   | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   | 61D  | 322090  |        | Kink Pin 16mm   | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   | 73F  | 32191   |        | Bolt Hex M10 X 100  | 3  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   | 77B  | 33771   |        | Bolt Tower M12 X 35   | 3  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   | 80C  | 37260   |        | Bolt Eye M20 X 325  | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   | #N/A   | 40439   |        | Nut M10   | 6  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  |   |        | 303569  | Copper "T" Bar for S/Off Insulators or L/A's to HV Cables or HVABC         | 3  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   | S/HVABC22.185.B/PLM  | S   |        | 119G  | 225773   | Lightning Arrester (NOT L.L TESTED) ABB 22kV 10kA c/w bird cap & M12 studs | 3          |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 120B  |  |   | 149117 | Termination kit 185mm <sup>2</sup> 22kV HVABC                                   | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 35E   |  |   | 141363 | Lug Crimp 70mm <sup>2</sup> binned copper                                       | 3  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 53AB  |  |   | 149112 | Cond Term Hel 19/3.65 catenary for 150/185 HVABC                                | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 53AD  |  |   | 149121 | Bundled restraint 185mm <sup>2</sup> 22kV HVABC                                 | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 55C   |  |   | 146618 | Dee Clamp for 7.5 to 16.25mm Dia. AL ACSR/GZ (19/2.00 Cu Tail) - 355mm Long     | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 55E   |  |   | 144955 | Parallel groove clamp (7.5-17.5mm Bi metal)                                     | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 60G   |  |   | 321260 | Insulator Disc Porcelain 16mm 70kN 146mm  | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 60H   |  |   | 320735 | Insulator Raychem standoff 24kV set of 3  | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 61A   |  |   | 322056 | Ball Clevis & Pin 16mm  | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 61B   |  |   | 322386 | Socket Termination 16mm   | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 61D   |  |   | 322090 | Kink Pin 16mm   | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 73F   |  |   | 32191  | Bolt Hex M10 X 100  | 3  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 77B   |  |   | 33771  | Bolt Tower M12 X 35   | 3  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| 80C   |  |   | 37260  | Bolt Eye M20 X 325  | 1  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| #N/A  |  |   | 40439  | Nut M10   | 6  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  |   |        | 303569  | Copper "T" Bar for S/Off Insulators or L/A's to HV Cables or HVABC         | 3  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  |   |        | 152482  | Lug Crimp Bimetal 185mm <sup>2</sup> M12                                   | 6  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| B   |  |   |        |   |  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| C   |  |   |        |   |  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| D   |  |   |        |   |  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| E   |  |   |        |   |  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| F   |  |   |        |   |  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| G   |  |   |        |   |  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| H   | <p><b>- OBSOLETE</b></p> <p><b>- FOR REFERENCE ONLY</b></p>  |   |        |   |  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| <p>NOTE: THESE APLS NEED TO BE USED IN CONJUNCTION WITH A DE/22/3/PLM DEAD END CONSTRUCTION TO INCLUDE CROSSARMS ETC.</p> |  |   |        |   |  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| <p>DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED</p>  |  |   |        |   |  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| ALTERATIONS   | ORIGINAL ISSUE   |  |        | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299 |  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  | DRAWN CS PRO-SOLUTIONS  |        | TITLE NMS HVABC STRAIN TRANSITION OPEN WIRE MATERIALS LIST OBSOLETE             |  | SCALE NTS  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  | DESIGNED BY ELECTRO   |        |   |  | A4   |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  | CHECKED BY H.WESTBURY   |        |   |  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
|   |  | APPROVED BY   |        |   |  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |
| DATE APPROVED 27/MAY/19   |  | D - OHC - C053 - SD - 002   |        | REVISION A  |  |  |            |            |   |  |          |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |                    |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |      |        |  |   |      |        |  |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |                     |   |      |        |  |   |      |        |   |   |     |        |   |   |      |        |  |   |      |        |   |   |     |        |   |   |     |        |   |   |     |        |  |   |     |        |  |   |     |        |                        |   |     |        |                         |   |     |        |               |   |     |       |                    |   |     |       |                     |   |     |       |                    |   |      |       |         |   |  |  |        |  |   |  |  |        |  |   |

# STEEL CROSSARMS HV CONSTRUCTIONS

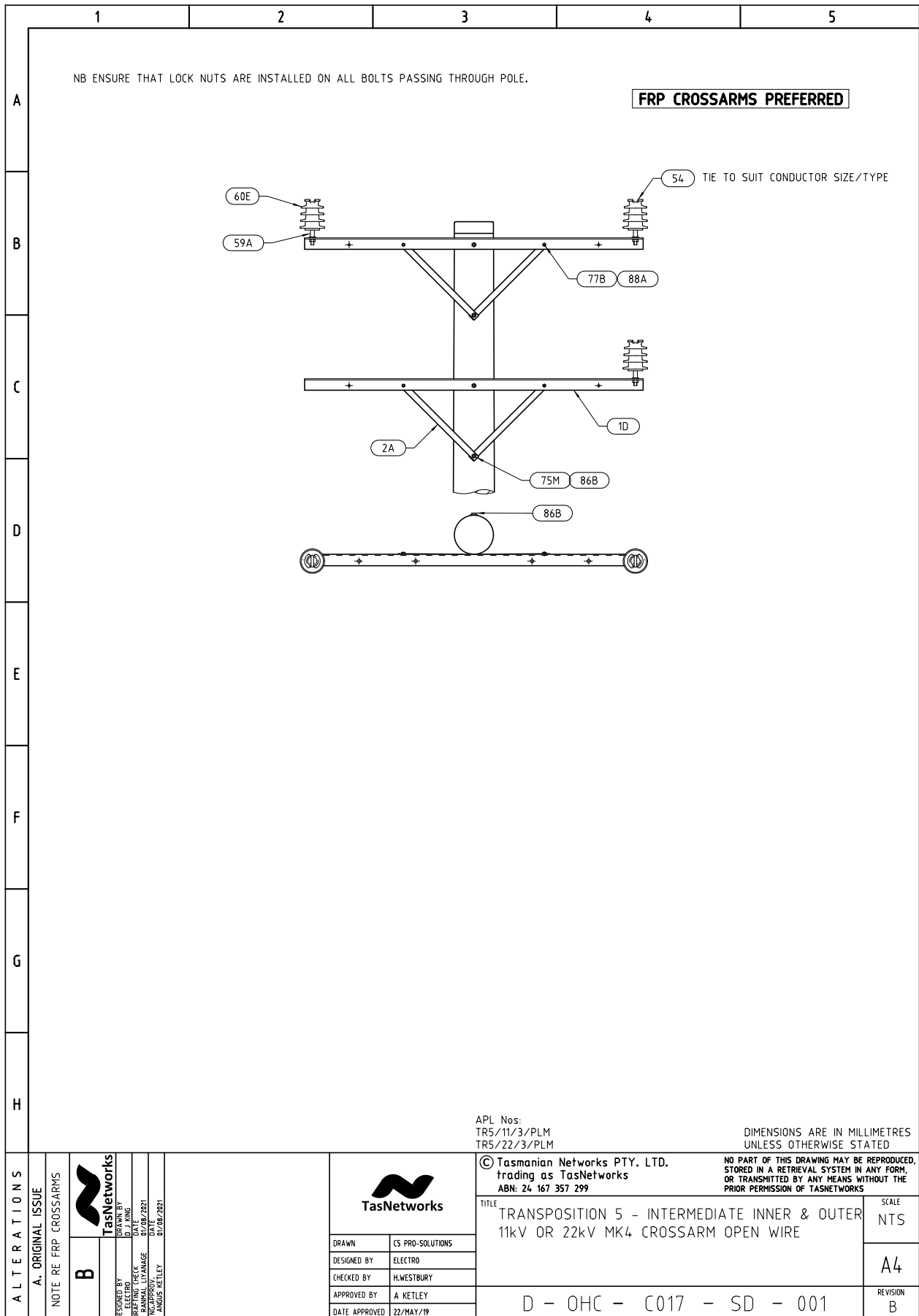
## 3.28 Transposition 4 Intermediate, Rolling Mk4 Crossarm




Transposition 4, Intermediate Rolling, MK4 Crossarm - Material List

|   | 1   | 2   | 3          | 4   | 5        |               |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|---|---|---|------------|---|----------|---------------|------------|----------|------------|------------------------|----------|------------------|---|---|--------|-----------------------------------|---|--------------|--|----|--------|---|---|--|--|-----|--------|---|---|--|--|-----|--------|-----------------------------------|---|--|--|-----|-------|--|---|--|--|-----|-------|---------------------------------------|---|--|--|-----|-------|------------------------------------|---|--|--|-----|-------|----------------------------------|---|--|--|-----|-------|----------------------------------|---|--|--|----|--------|---|---|
| A   |   |   |            |   |          |               |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| B   |   |   |            |   |          |               |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| C   | <table border="1"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Stock Item Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>TR4/11/3/PLM and</td> <td>S</td> <td>4</td> <td>323311</td> <td>BRACKET,RIGHT ANGLE 75 X 12MM GAL</td> <td>1</td> </tr> <tr> <td>TR4/22/3/PLM</td> <td></td> <td>1D</td> <td>323304</td> <td>CROSSARM,STEEL 75 X 75 X 2210MM MK4 GAL</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>59A</td> <td>322721</td> <td>PIN,INSULATOR 20MM DIA X 22KV GAL STEEL</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td>60E</td> <td>320531</td> <td>INSULATOR,PIN 22KV AERO PORCELAIN</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td>75M</td> <td>32287</td> <td>BOLT,HEX HEAD M16 X 325MM GAL. C/W NUT</td> <td>4</td> </tr> <tr> <td></td> <td></td> <td>77B</td> <td>33771</td> <td>BOLT,HEX HEAD M12 X 35MM GAL. C/W NUT</td> <td>4</td> </tr> <tr> <td></td> <td></td> <td>82A</td> <td>40441</td> <td>NUT,HEX M16 THREAD GALANISED STEEL</td> <td>8</td> </tr> <tr> <td></td> <td></td> <td>86B</td> <td>65158</td> <td>WASHER,FLAT ROUND M16 X 50MM GAL</td> <td>4</td> </tr> <tr> <td></td> <td></td> <td>88A</td> <td>66412</td> <td>WASHER,FLAT ROUND M12 X 24MM GAL</td> <td>4</td> </tr> <tr> <td></td> <td></td> <td>2A</td> <td>323314</td> <td>BRACE,CROSSARM 40 X 700 X 5MM THICK GAL</td> <td>4</td> </tr> </tbody> </table> |   |            |   |          | Unit Assembly | Store Type | Item Ref | Stock Item | Stock Item Description | Quantity | TR4/11/3/PLM and | S | 4 | 323311 | BRACKET,RIGHT ANGLE 75 X 12MM GAL | 1 | TR4/22/3/PLM |  | 1D | 323304 | CROSSARM,STEEL 75 X 75 X 2210MM MK4 GAL | 2 |  |  | 59A | 322721 | PIN,INSULATOR 20MM DIA X 22KV GAL STEEL | 3 |  |  | 60E | 320531 | INSULATOR,PIN 22KV AERO PORCELAIN | 3 |  |  | 75M | 32287 | BOLT,HEX HEAD M16 X 325MM GAL. C/W NUT | 4 |  |  | 77B | 33771 | BOLT,HEX HEAD M12 X 35MM GAL. C/W NUT | 4 |  |  | 82A | 40441 | NUT,HEX M16 THREAD GALANISED STEEL | 8 |  |  | 86B | 65158 | WASHER,FLAT ROUND M16 X 50MM GAL | 4 |  |  | 88A | 66412 | WASHER,FLAT ROUND M12 X 24MM GAL | 4 |  |  | 2A | 323314 | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL | 4 |
| Unit Assembly                                       | Store Type  | Item Ref  | Stock Item | Stock Item Description  | Quantity |               |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| TR4/11/3/PLM and                                    | S   | 4   | 323311     | BRACKET,RIGHT ANGLE 75 X 12MM GAL   | 1        |               |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| TR4/22/3/PLM  |   | 1D  | 323304     | CROSSARM,STEEL 75 X 75 X 2210MM MK4 GAL   | 2        |               |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   | 59A   | 322721     | PIN,INSULATOR 20MM DIA X 22KV GAL STEEL   | 3        |               |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   | 60E   | 320531     | INSULATOR,PIN 22KV AERO PORCELAIN   | 3        |               |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   | 75M   | 32287      | BOLT,HEX HEAD M16 X 325MM GAL. C/W NUT  | 4        |               |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   | 77B   | 33771      | BOLT,HEX HEAD M12 X 35MM GAL. C/W NUT   | 4        |               |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   | 82A   | 40441      | NUT,HEX M16 THREAD GALANISED STEEL  | 8        |               |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   | 86B   | 65158      | WASHER,FLAT ROUND M16 X 50MM GAL  | 4        |               |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   | 88A   | 66412      | WASHER,FLAT ROUND M12 X 24MM GAL  | 4        |               |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   | 2A  | 323314     | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL   | 4        |               |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| D   |   |   |            |   |          |               |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| E   |   |   |            |   |          |               |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| F   |   |   |            |   |          |               |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| G   |   |   |            |   |          |               |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| H   |   |   |            |   |          |               |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| A<br>L<br>T<br>E<br>R<br>A<br>T<br>I<br>O<br>N<br>S | O<br>R<br>I<br>G<br>I<br>N<br>A<br>L<br>I<br>S<br>S<br>U<br>E   |  |            | © Tasmanian Networks PTY. LTD.<br>Trading as TasNetworks<br>ABN: 24 167 357 299   |          |               |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   |   |            | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNETWORKS |          | SCALE<br>NTS  |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   |   |            | TITLE<br>TRANSPOSITION 4 - INTERMEDIATE 'ROLLING'<br>11kV OR 22kV MK4 CROSSARM OPEN WIRE<br>MATERIALS LIST  |          | A4            |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   |   |            | D - OHC - C016 - SD - 002   |          | REVISION<br>A |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   |   |            | DRAWN CS PRO-SOLUTIONS<br>DESIGNED BY ELECTRO<br>CHECKED BY H.WESTBURY<br>APPROVED BY A.KETLEY<br>DATE APPROVED 22/MAY/19   |          |               |            |          |            |                        |          |                  |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |

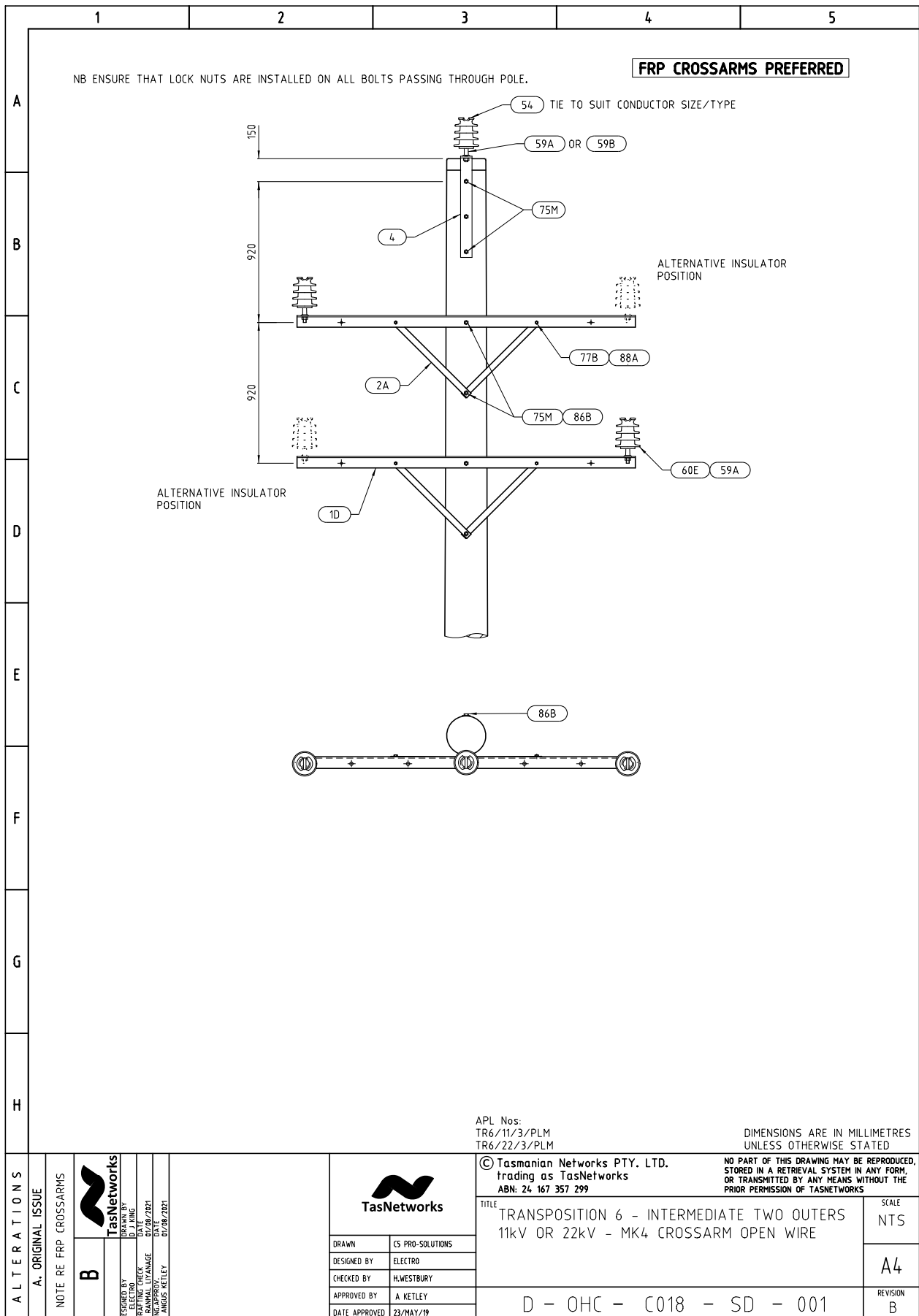
### 3.29 Transposition 5, Intermediate, Inner & Outers, Mk4 Crossarm




Transposition 5, Intermediate Rolling, Inner & Outers, MK4 Crossarm - Material List

|   | 1   | 2   | 3          | 4   | 5        |               |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|---|---|---|------------|---|----------|---------------|------------|----------|------------|------------------------|----------|------------------|---|----|--------|---|---|--------------|--|-----|--------|---|---|--|--|-----|--------|-----------------------------------|---|--|--|-----|-------|--|---|--|--|-----|-------|---------------------------------------|---|--|--|-----|-------|------------------------------------|---|--|--|-----|-------|----------------------------------|---|--|--|-----|-------|----------------------------------|---|--|--|----|--------|---|---|
| A   |   |   |            |   |          |               |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| B   | <table border="1"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Stock Item Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>TR5/11/3/PLM and</td> <td>S</td> <td>1D</td> <td>323304</td> <td>CROSSARM,STEEL 75 X 75 X 2210MM MK4 GAL</td> <td>2</td> </tr> <tr> <td>TR5/22/3/PLM</td> <td></td> <td>59A</td> <td>322721</td> <td>PIN,INSULATOR 20MM DIA X 22KV GAL STEEL</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td>60E</td> <td>320531</td> <td>INSULATOR,PIN 22KV AERO PORCELAIN</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td>75M</td> <td>32287</td> <td>BOLT,HEX HEAD M16 X 325MM GAL. C/W NUT</td> <td>4</td> </tr> <tr> <td></td> <td></td> <td>77B</td> <td>33771</td> <td>BOLT,HEX HEAD M12 X 35MM GAL. C/W NUT</td> <td>4</td> </tr> <tr> <td></td> <td></td> <td>82A</td> <td>40441</td> <td>NUT,HEX M16 THREAD GALANISED STEEL</td> <td>8</td> </tr> <tr> <td></td> <td></td> <td>86B</td> <td>65158</td> <td>WASHER,FLAT ROUND M16 X 50MM GAL</td> <td>4</td> </tr> <tr> <td></td> <td></td> <td>88A</td> <td>66412</td> <td>WASHER,FLAT ROUND M12 X 24MM GAL</td> <td>4</td> </tr> <tr> <td></td> <td></td> <td>2A</td> <td>323314</td> <td>BRACE,CROSSARM 40 X 700 X 5MM THICK GAL</td> <td>4</td> </tr> </tbody> </table> |   |            |   |          | Unit Assembly | Store Type | Item Ref | Stock Item | Stock Item Description | Quantity | TR5/11/3/PLM and | S | 1D | 323304 | CROSSARM,STEEL 75 X 75 X 2210MM MK4 GAL | 2 | TR5/22/3/PLM |  | 59A | 322721 | PIN,INSULATOR 20MM DIA X 22KV GAL STEEL | 3 |  |  | 60E | 320531 | INSULATOR,PIN 22KV AERO PORCELAIN | 3 |  |  | 75M | 32287 | BOLT,HEX HEAD M16 X 325MM GAL. C/W NUT | 4 |  |  | 77B | 33771 | BOLT,HEX HEAD M12 X 35MM GAL. C/W NUT | 4 |  |  | 82A | 40441 | NUT,HEX M16 THREAD GALANISED STEEL | 8 |  |  | 86B | 65158 | WASHER,FLAT ROUND M16 X 50MM GAL | 4 |  |  | 88A | 66412 | WASHER,FLAT ROUND M12 X 24MM GAL | 4 |  |  | 2A | 323314 | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL | 4 |
| Unit Assembly                                       | Store Type  | Item Ref  | Stock Item | Stock Item Description  | Quantity |               |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| TR5/11/3/PLM and                                    | S   | 1D  | 323304     | CROSSARM,STEEL 75 X 75 X 2210MM MK4 GAL   | 2        |               |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| TR5/22/3/PLM  |   | 59A   | 322721     | PIN,INSULATOR 20MM DIA X 22KV GAL STEEL   | 3        |               |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   | 60E   | 320531     | INSULATOR,PIN 22KV AERO PORCELAIN   | 3        |               |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   | 75M   | 32287      | BOLT,HEX HEAD M16 X 325MM GAL. C/W NUT  | 4        |               |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   | 77B   | 33771      | BOLT,HEX HEAD M12 X 35MM GAL. C/W NUT   | 4        |               |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   | 82A   | 40441      | NUT,HEX M16 THREAD GALANISED STEEL  | 8        |               |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   | 86B   | 65158      | WASHER,FLAT ROUND M16 X 50MM GAL  | 4        |               |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   | 88A   | 66412      | WASHER,FLAT ROUND M12 X 24MM GAL  | 4        |               |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   | 2A  | 323314     | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL   | 4        |               |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| C   |   |   |            |   |          |               |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| D   |   |   |            |   |          |               |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| E   |   |   |            |   |          |               |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| F   |   |   |            |   |          |               |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| G   |   |   |            |   |          |               |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| H   |   |   |            |   |          |               |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| A<br>L<br>T<br>E<br>R<br>A<br>T<br>I<br>O<br>N<br>S | O<br>R<br>I<br>G<br>I<br>N<br>A<br>L<br>I<br>S<br>S<br>U<br>E   |  |            | © Tasmanian Networks PTY. LTD.<br>Trading as TasNetworks<br>ABN: 24 167 357 299   |          |               |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   |   |            | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNETWORKS |          | SCALE<br>NTS  |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   |   |            | TITLE<br>TRANSPOSITION 5 - INTERMEDIATE INNER & OUTER<br>11kV OR 22kV MK4 CROSSARM OPEN WIRE<br>MATERIALS LIST  |          | A4            |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   |   |            | D - OHC - C017 - SD - 002   |          | REVISION<br>A |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |   |   |            | DRAWN CS PRO-SOLUTIONS<br>DESIGNED BY ELECTRO<br>CHECKED BY H.WESTBURY<br>APPROVED BY A.KETLEY<br>DATE APPROVED 23/MAY/19   |          |               |            |          |            |                        |          |                  |   |    |        |   |   |              |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |

### 3.30 Transposition 6, Intermediate, Two Outers, Mk4 Crossarm



Transposition 6, Intermediate, Two Outers, MK4 Crossarm - Material List

|   | 1  | 2   | 3          | 4   | 5        |               |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|---|--|---|------------|---|----------|---------------|------------|----------|------------|------------------------|----------|-----------------|---|---|--------|-----------------------------------|---|--------------|--|----|--------|---|---|--|--|-----|--------|---|---|--|--|-----|--------|-----------------------------------|---|--|--|-----|-------|--|---|--|--|-----|-------|---------------------------------------|---|--|--|-----|-------|------------------------------------|---|--|--|-----|-------|----------------------------------|---|--|--|-----|-------|----------------------------------|---|--|--|----|--------|---|---|
| A   |  |   |            |   |          |               |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| B   | <table border="1"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Stock Item Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>TR6/11/3PLM and</td> <td>S</td> <td>4</td> <td>323311</td> <td>BRACKET,RIGHT ANGLE 75 X 12MM GAL</td> <td>1</td> </tr> <tr> <td>TR6/22/3/PLM</td> <td></td> <td>1D</td> <td>323304</td> <td>CROSSARM,STEEL 75 X 75 X 2210MM MK4 GAL</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>59A</td> <td>322721</td> <td>PIN,INSULATOR 20MM DIA X 22KV GAL STEEL</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td>60E</td> <td>320531</td> <td>INSULATOR,PIN 22KV AERO PORCELAIN</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td>75M</td> <td>32287</td> <td>BOLT,HEX HEAD M16 X 325MM GAL. C/W NUT</td> <td>6</td> </tr> <tr> <td></td> <td></td> <td>77B</td> <td>33771</td> <td>BOLT,HEX HEAD M12 X 35MM GAL. C/W NUT</td> <td>4</td> </tr> <tr> <td></td> <td></td> <td>82A</td> <td>40441</td> <td>NUT,HEX M16 THREAD GALANISED STEEL</td> <td>8</td> </tr> <tr> <td></td> <td></td> <td>86B</td> <td>65158</td> <td>WASHER,FLAT ROUND M16 X 50MM GAL</td> <td>4</td> </tr> <tr> <td></td> <td></td> <td>88A</td> <td>66412</td> <td>WASHER,FLAT ROUND M12 X 24MM GAL</td> <td>4</td> </tr> <tr> <td></td> <td></td> <td>2A</td> <td>323314</td> <td>BRACE,CROSSARM 40 X 700 X 5MM THICK GAL</td> <td>4</td> </tr> </tbody> </table> |   |            |   |          | Unit Assembly | Store Type | Item Ref | Stock Item | Stock Item Description | Quantity | TR6/11/3PLM and | S | 4 | 323311 | BRACKET,RIGHT ANGLE 75 X 12MM GAL | 1 | TR6/22/3/PLM |  | 1D | 323304 | CROSSARM,STEEL 75 X 75 X 2210MM MK4 GAL | 2 |  |  | 59A | 322721 | PIN,INSULATOR 20MM DIA X 22KV GAL STEEL | 3 |  |  | 60E | 320531 | INSULATOR,PIN 22KV AERO PORCELAIN | 3 |  |  | 75M | 32287 | BOLT,HEX HEAD M16 X 325MM GAL. C/W NUT | 6 |  |  | 77B | 33771 | BOLT,HEX HEAD M12 X 35MM GAL. C/W NUT | 4 |  |  | 82A | 40441 | NUT,HEX M16 THREAD GALANISED STEEL | 8 |  |  | 86B | 65158 | WASHER,FLAT ROUND M16 X 50MM GAL | 4 |  |  | 88A | 66412 | WASHER,FLAT ROUND M12 X 24MM GAL | 4 |  |  | 2A | 323314 | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL | 4 |
| Unit Assembly                                       | Store Type   | Item Ref  | Stock Item | Stock Item Description  | Quantity |               |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| TR6/11/3PLM and                                     | S  | 4   | 323311     | BRACKET,RIGHT ANGLE 75 X 12MM GAL   | 1        |               |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| TR6/22/3/PLM  |  | 1D  | 323304     | CROSSARM,STEEL 75 X 75 X 2210MM MK4 GAL   | 2        |               |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |  | 59A   | 322721     | PIN,INSULATOR 20MM DIA X 22KV GAL STEEL   | 3        |               |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |  | 60E   | 320531     | INSULATOR,PIN 22KV AERO PORCELAIN   | 3        |               |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |  | 75M   | 32287      | BOLT,HEX HEAD M16 X 325MM GAL. C/W NUT  | 6        |               |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |  | 77B   | 33771      | BOLT,HEX HEAD M12 X 35MM GAL. C/W NUT   | 4        |               |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |  | 82A   | 40441      | NUT,HEX M16 THREAD GALANISED STEEL  | 8        |               |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |  | 86B   | 65158      | WASHER,FLAT ROUND M16 X 50MM GAL  | 4        |               |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |  | 88A   | 66412      | WASHER,FLAT ROUND M12 X 24MM GAL  | 4        |               |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |  | 2A  | 323314     | BRACE,CROSSARM 40 X 700 X 5MM THICK GAL   | 4        |               |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| C   |  |   |            |   |          |               |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| D   |  |   |            |   |          |               |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| E   |  |   |            |   |          |               |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| F   |  |   |            |   |          |               |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| G   |  |   |            |   |          |               |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| H   |  |   |            |   |          |               |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
| A<br>L<br>T<br>E<br>R<br>A<br>T<br>I<br>O<br>N<br>S | O<br>R<br>I<br>G<br>I<br>N<br>A<br>L<br>I<br>S<br>S<br>U<br>E  |  |            | © Tasmanian Networks PTY. LTD.<br>Trading as TasNetworks<br>ABN: 24 167 357 299   |          |               |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |  |   |            | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNETWORKS |          | SCALE<br>NTS  |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |  |   |            | TITLE<br>TRANSPOSITION 6 - INTERMEDIATE TWO OUTERS<br>11kV OR 22kV - MK4 CROSSARM OPEN WIRE<br>MATERIALS LIST   |          | A4            |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |  |   |            | D - OHC - C018 - SD - 002   |          | REVISION<br>A |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |
|   |  |   |            | DRAWN CS PRO-SOLUTIONS<br>DESIGNED BY ELECTRO<br>CHECKED BY H.WESTBURY<br>APPROVED BY A KETLEY<br>DATE APPROVED 23/MAY/19   |          |               |            |          |            |                        |          |                 |   |   |        |                                   |   |              |  |    |        |   |   |  |  |     |        |   |   |  |  |     |        |                                   |   |  |  |     |       |  |   |  |  |     |       |                                       |   |  |  |     |       |                                    |   |  |  |     |       |                                  |   |  |  |     |       |                                  |   |  |  |    |        |   |   |





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# SECTION 4 – 33kV & 66kV CONSTRUCTIONS



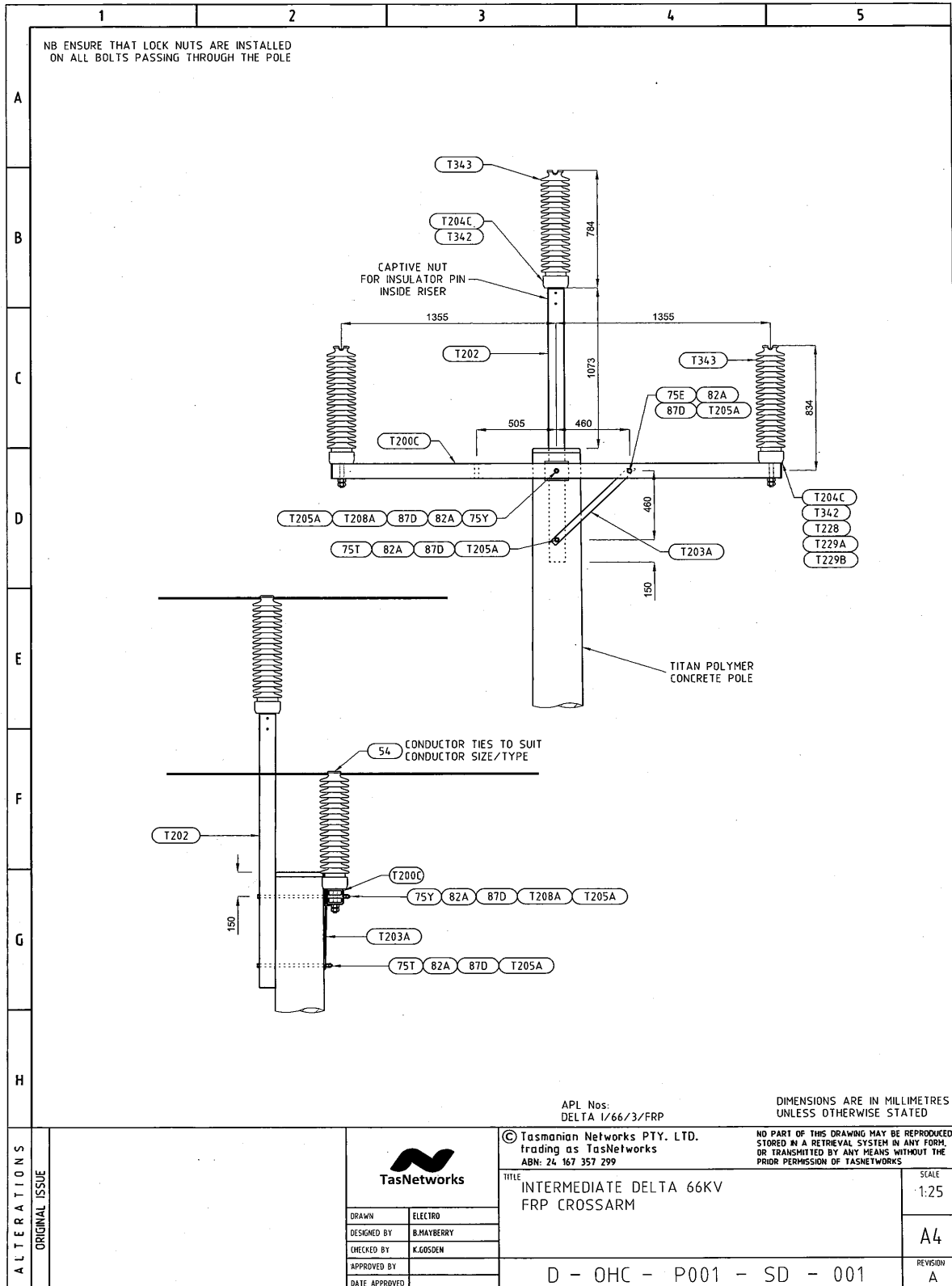
## 4 SECTION 4 – 33kV & 66kV CONSTRUCTIONS

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# MISCELLANEOUS CONSTRUCTIONS - REFERENCE ONLY

## 66KV FRP CONSTRUCTIONS

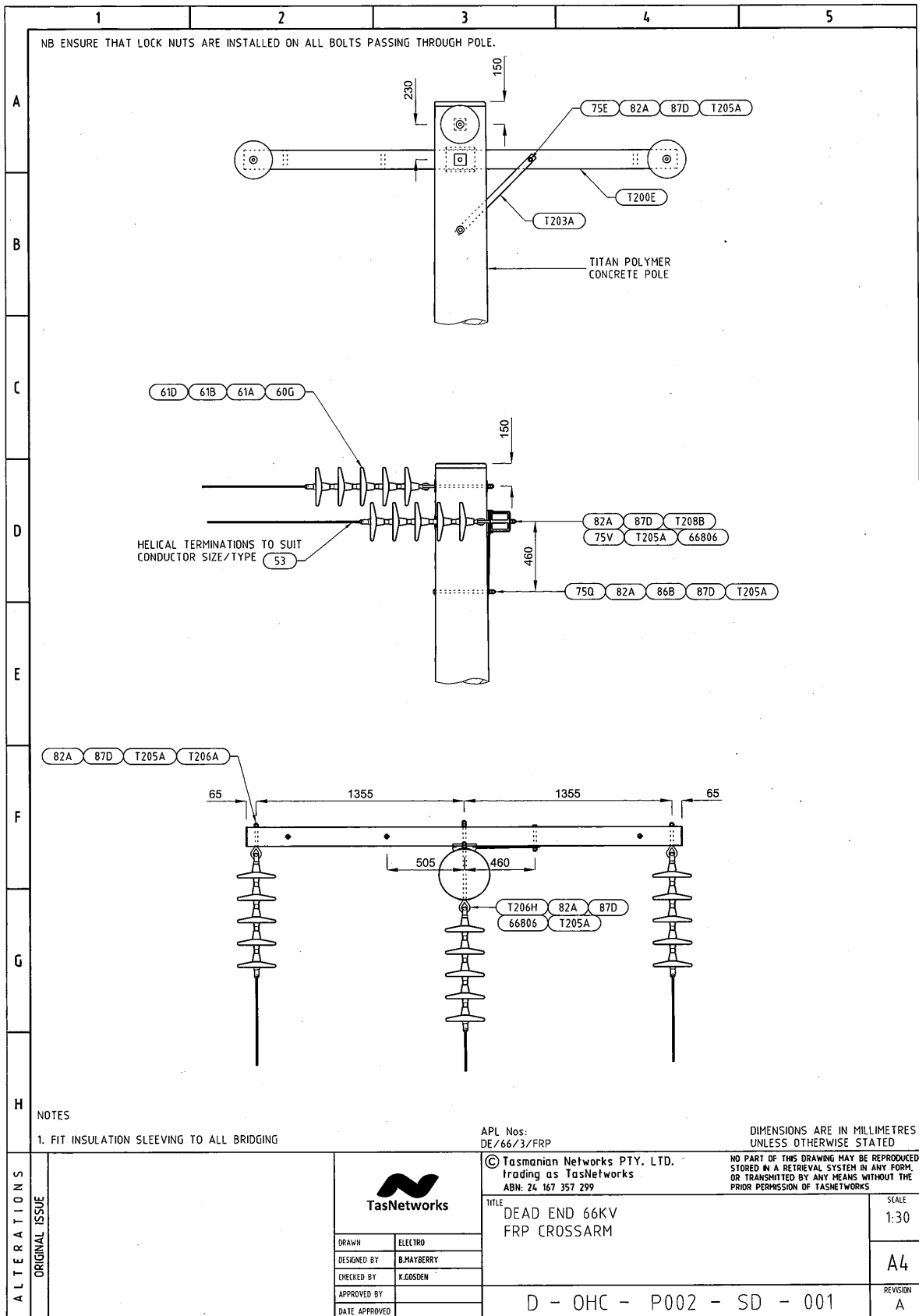
### 4.1 Intermediate Delta 66kV FRP Crossarm




Intermediate Delta 66kV FRP Crossarm Material List

|                               | 1  | 2                         | 3   | 4   | 5   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
|-------------------------------|--|---------------------------|---|---|---|---------------|------------|----------|------------|------------------------|----------|---------------------|---|------|-----|---|---|-----|-------|---|---|-----|-------|---|---|-----|-------|---|---|-----|-------|-------------|---|-----|-------|---------------|---|-------|-----|--|---|------|-----|---|---|-------|-----|-----------------------|---|-------|-----|---|---|-------|-----|------------------|---|-------|-----|---|---|------|-----|---|---|-------|-----|---|---|------|-----|---|---|-------|-----|---|---|
| A                             |  |                           |   |   |   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
| B                             |  |                           |   |   |   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
| C                             | <table border="1"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Stock Item Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td rowspan="18">DELTA<br/>I/66/3/FRP</td> <td rowspan="18">S</td> <td>T343</td> <td>NEW</td> <td>66kV Tie Top Line Post Insulator, Stud Type (Morlynn H11167/ISS7)</td> <td>3</td> </tr> <tr> <td>75E</td> <td>32279</td> <td>Bolt Hex M16 X 180 - Thread Length 57mm</td> <td>1</td> </tr> <tr> <td>75T</td> <td>32293</td> <td>Bolt Hex M16 X 475 - Thread Length 75mm</td> <td>1</td> </tr> <tr> <td>75Y</td> <td>32298</td> <td>Bolt Hex M16 X 600 - Thread Length 75mm</td> <td>1</td> </tr> <tr> <td>82A</td> <td>40441</td> <td>Nut Hex M16</td> <td>5</td> </tr> <tr> <td>87D</td> <td>65616</td> <td>Washer NS M16</td> <td>6</td> </tr> <tr> <td>T200C</td> <td>NEW</td> <td>CF XARM - 2840x100x100 - CA-100 SHS 2.834m ARM</td> <td>1</td> </tr> <tr> <td>T202</td> <td>NEW</td> <td>CF DELTA RISER - AOA01555 - 1833x100x100 - CA-100 SHS 1.824 RISER</td> <td>1</td> </tr> <tr> <td>T203A</td> <td>NEW</td> <td>XARM BRACE - 716x40x6</td> <td>1</td> </tr> <tr> <td>T204C</td> <td>NEW</td> <td>STUD M24, INSULATOR - (G.V.KINSMAN- 1S-108851) 180mm stem - 39mm head</td> <td>3</td> </tr> <tr> <td>T208A</td> <td>NEW</td> <td>GAIN BLOCK 100mm</td> <td>1</td> </tr> <tr> <td>T205A</td> <td>NEW</td> <td>M16 Spring Washer - Galvanised Spring Steel DIN127B (OD: 27mm, ID: 16.2 - 17.0mm, Thickness: 3.5)</td> <td>3</td> </tr> <tr> <td>T228</td> <td>NEW</td> <td>M24 Nut Hex (36mm across Flats, 21mm Thick)</td> <td>4</td> </tr> <tr> <td>T229A</td> <td>NEW</td> <td>M24 Washer NS (ID-26mm, OD-48mm, Thickness 4.0mm)</td> <td>2</td> </tr> <tr> <td>T342</td> <td>NEW</td> <td>M24 Lock/Half Nut - Thickness 7.0 - 9.0mm</td> <td>3</td> </tr> <tr> <td>T229B</td> <td>NEW</td> <td>M24 Spring Washer - Galvanised Spring Steel DIN127B (OD: 40mm, ID: 24.5 - 25.5mm, Thickness: 5.0)</td> <td>2</td> </tr> </tbody> </table> |                           |   |   |   | Unit Assembly | Store Type | Item Ref | Stock Item | Stock Item Description | Quantity | DELTA<br>I/66/3/FRP | S | T343 | NEW | 66kV Tie Top Line Post Insulator, Stud Type (Morlynn H11167/ISS7) | 3 | 75E | 32279 | Bolt Hex M16 X 180 - Thread Length 57mm | 1 | 75T | 32293 | Bolt Hex M16 X 475 - Thread Length 75mm | 1 | 75Y | 32298 | Bolt Hex M16 X 600 - Thread Length 75mm | 1 | 82A | 40441 | Nut Hex M16 | 5 | 87D | 65616 | Washer NS M16 | 6 | T200C | NEW | CF XARM - 2840x100x100 - CA-100 SHS 2.834m ARM | 1 | T202 | NEW | CF DELTA RISER - AOA01555 - 1833x100x100 - CA-100 SHS 1.824 RISER | 1 | T203A | NEW | XARM BRACE - 716x40x6 | 1 | T204C | NEW | STUD M24, INSULATOR - (G.V.KINSMAN- 1S-108851) 180mm stem - 39mm head | 3 | T208A | NEW | GAIN BLOCK 100mm | 1 | T205A | NEW | M16 Spring Washer - Galvanised Spring Steel DIN127B (OD: 27mm, ID: 16.2 - 17.0mm, Thickness: 3.5) | 3 | T228 | NEW | M24 Nut Hex (36mm across Flats, 21mm Thick) | 4 | T229A | NEW | M24 Washer NS (ID-26mm, OD-48mm, Thickness 4.0mm) | 2 | T342 | NEW | M24 Lock/Half Nut - Thickness 7.0 - 9.0mm | 3 | T229B | NEW | M24 Spring Washer - Galvanised Spring Steel DIN127B (OD: 40mm, ID: 24.5 - 25.5mm, Thickness: 5.0) | 2 |
| Unit Assembly                 | Store Type   | Item Ref                  | Stock Item  | Stock Item Description  | Quantity  |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
| DELTA<br>I/66/3/FRP           | S  | T343                      | NEW   | 66kV Tie Top Line Post Insulator, Stud Type (Morlynn H11167/ISS7)                                 | 3   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
|                               |  | 75E                       | 32279   | Bolt Hex M16 X 180 - Thread Length 57mm   | 1   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
|                               |  | 75T                       | 32293   | Bolt Hex M16 X 475 - Thread Length 75mm   | 1   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
|                               |  | 75Y                       | 32298   | Bolt Hex M16 X 600 - Thread Length 75mm   | 1   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
|                               |  | 82A                       | 40441   | Nut Hex M16   | 5   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
|                               |  | 87D                       | 65616   | Washer NS M16   | 6   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
|                               |  | T200C                     | NEW   | CF XARM - 2840x100x100 - CA-100 SHS 2.834m ARM  | 1   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
|                               |  | T202                      | NEW   | CF DELTA RISER - AOA01555 - 1833x100x100 - CA-100 SHS 1.824 RISER                                 | 1   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
|                               |  | T203A                     | NEW   | XARM BRACE - 716x40x6   | 1   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
|                               |  | T204C                     | NEW   | STUD M24, INSULATOR - (G.V.KINSMAN- 1S-108851) 180mm stem - 39mm head                             | 3   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
|                               |  | T208A                     | NEW   | GAIN BLOCK 100mm  | 1   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
|                               |  | T205A                     | NEW   | M16 Spring Washer - Galvanised Spring Steel DIN127B (OD: 27mm, ID: 16.2 - 17.0mm, Thickness: 3.5) | 3   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
|                               |  | T228                      | NEW   | M24 Nut Hex (36mm across Flats, 21mm Thick)   | 4   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
|                               |  | T229A                     | NEW   | M24 Washer NS (ID-26mm, OD-48mm, Thickness 4.0mm)   | 2   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
|                               |  | T342                      | NEW   | M24 Lock/Half Nut - Thickness 7.0 - 9.0mm   | 3   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
|                               |  | T229B                     | NEW   | M24 Spring Washer - Galvanised Spring Steel DIN127B (OD: 40mm, ID: 24.5 - 25.5mm, Thickness: 5.0) | 2   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
|                               |  | D                         |   |   |   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
|                               |  | E                         |   |   |   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
| F                             |  |                           |   |   |   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
| G                             |  |                           |   |   |   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
| H                             |  |                           |   |   |   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
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|                               | DRAWN: ELECTRO   |                           | TITLE: INTERMEDIATE DELTA 66KV<br>FRP CROSSARM<br>MATERIAL LIST                 |   | SCALE:<br>NTS   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
|                               | DESIGNED BY: B.MAYBERRY  |                           |   |   | A4  |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
|                               | CHECKED BY: K.GOSDEN   |                           |   |   | REVISION:<br>A  |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
| APPROVED BY:                  |  | D - OHC - P001 - SD - 002 |   |   |   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |
| DATE APPROVED:                |  |                           |   |   |   |               |            |          |            |                        |          |                     |   |      |     |   |   |     |       |   |   |     |       |   |   |     |       |   |   |     |       |             |   |     |       |               |   |       |     |  |   |      |     |   |   |       |     |                       |   |       |     |   |   |       |     |                  |   |       |     |   |   |      |     |   |   |       |     |   |   |      |     |   |   |       |     |   |   |

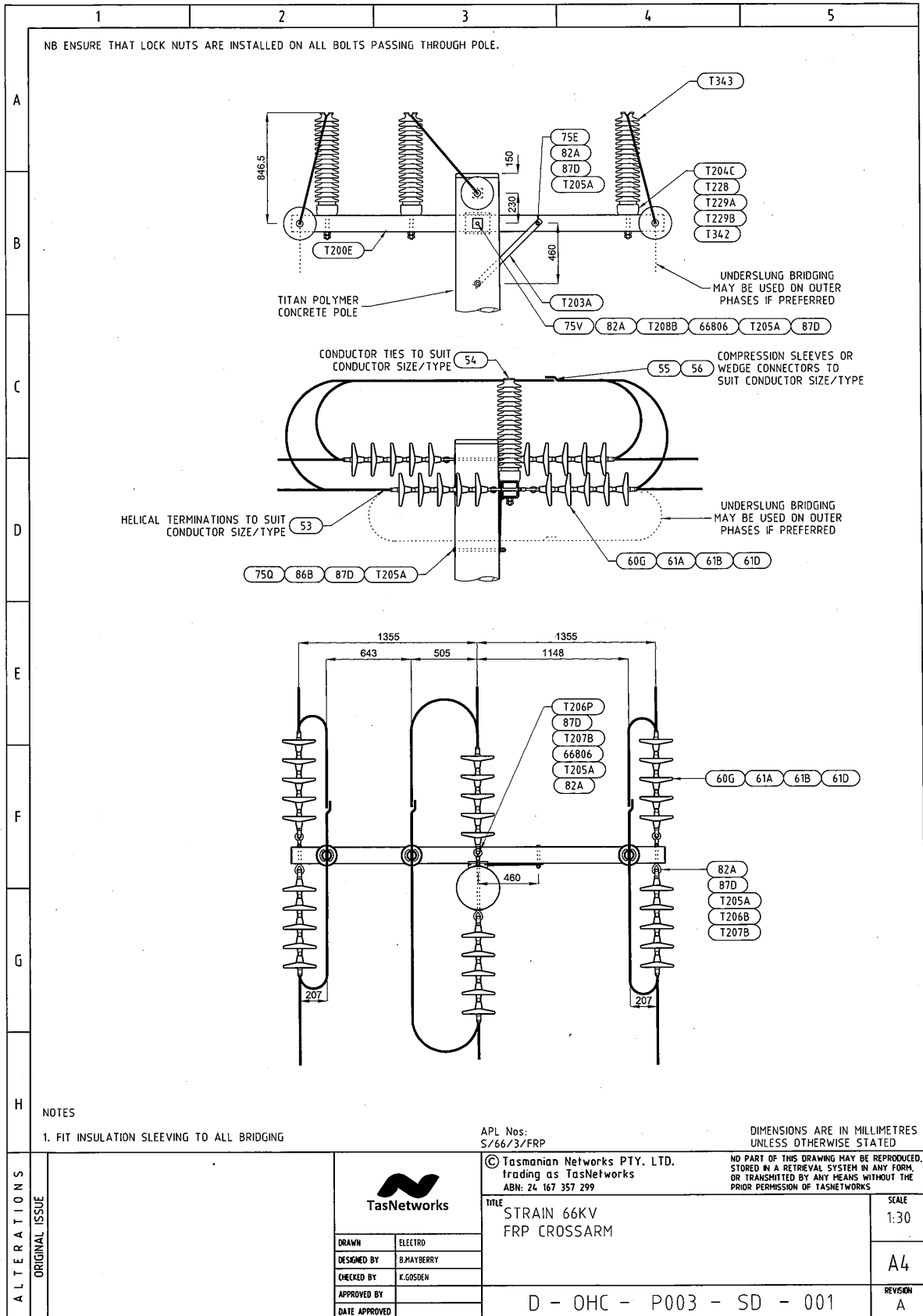
### 4.2 Dead End 66kV FRP Crossarm



Dead End 66kV FRP Crossarm – Material List


|               | 1  | 2  | 3                         | 4   | 5        |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
|---------------|--|--|---------------------------|---|----------|---------------|------------|----------|------------|------------------------|----------|-------------|---|-----|--------|--|----|--|--|-----|--------|------------------------|---|--|--|-----|--------|-------------------------|---|--|--|-----|--------|-------------------|----|--|--|-----|-------|---|---|--|--|-----|-------|---|---|--|--|-----|-------|-------------|---|--|--|-----|-------|----------------|---|--|--|-----|-------|---------------|---|--|--|-------|-----|--|---|--|--|-------|-----|-----------------------|---|--|--|-------|-----|---------------------------------------|---|--|--|-------|-----|---------------------------------------|---|--|--|-------|-----|------------------|---|--|--|-------|-------|--|---|--|--|-----|-------|---|---|--|--|-------|-----|---|---|
| A             |  |  |                           |   |          |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
| B             |  |  |                           |   |          |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
| C             | <table border="1"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Stock Item Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>DE/66/3/FRP</td> <td>S</td> <td>60G</td> <td>321260</td> <td>Insulator Disc Porcelain 16mm 70Kn 146mm</td> <td>15</td> </tr> <tr> <td></td> <td></td> <td>61A</td> <td>322056</td> <td>Ball Clevis &amp; Pin 16mm</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td>61B</td> <td>322386</td> <td>Socket Termination 16mm</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td>61D</td> <td>322090</td> <td>W Clip / Kirk Pin</td> <td>18</td> </tr> <tr> <td></td> <td></td> <td>75E</td> <td>32279</td> <td>Bolt Hex M16 X 180 - Thread Length 57mm</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>75Q</td> <td>32290</td> <td>Bolt Hex M16 X 400 - Thread Length 75mm</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>82A</td> <td>40441</td> <td>Nut Hex M16</td> <td>9</td> </tr> <tr> <td></td> <td></td> <td>86B</td> <td>65158</td> <td>Washer ELS M16</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>87D</td> <td>65616</td> <td>Washer NS M16</td> <td>9</td> </tr> <tr> <td></td> <td></td> <td>T200E</td> <td>NEW</td> <td>CF XARM - 2840x125x125 - CA-125 SHS 2.834m ARM</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>T203A</td> <td>NEW</td> <td>XARM BRACE - 716x40x8</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>T206A</td> <td>NEW</td> <td>M16 EYE BOLT 150 - Thread Length 60mm</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>T206H</td> <td>NEW</td> <td>M16 EYE BOLT 400 - Thread Length 75mm</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>T208B</td> <td>NEW</td> <td>GAIN BLOCK 125mm</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>66806</td> <td>66806</td> <td>Curved Washer 75mm x 75mm x 5.0mm Thick to Fit M16</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td>75V</td> <td>32295</td> <td>Bolt Hex M16 X 525 - Thread Length 75mm</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>T205A</td> <td>NEW</td> <td>M16 Spring Washer - Galvanised Spring Steel DIN127B (OD: 27mm, ID: 16.2 - 17.0mm, Thickness: 3.5)</td> <td>6</td> </tr> </tbody> </table> |  |                           |   |          | Unit Assembly | Store Type | Item Ref | Stock Item | Stock Item Description | Quantity | DE/66/3/FRP | S | 60G | 321260 | Insulator Disc Porcelain 16mm 70Kn 146mm | 15 |  |  | 61A | 322056 | Ball Clevis & Pin 16mm | 3 |  |  | 61B | 322386 | Socket Termination 16mm | 3 |  |  | 61D | 322090 | W Clip / Kirk Pin | 18 |  |  | 75E | 32279 | Bolt Hex M16 X 180 - Thread Length 57mm | 1 |  |  | 75Q | 32290 | Bolt Hex M16 X 400 - Thread Length 75mm | 1 |  |  | 82A | 40441 | Nut Hex M16 | 9 |  |  | 86B | 65158 | Washer ELS M16 | 1 |  |  | 87D | 65616 | Washer NS M16 | 9 |  |  | T200E | NEW | CF XARM - 2840x125x125 - CA-125 SHS 2.834m ARM | 1 |  |  | T203A | NEW | XARM BRACE - 716x40x8 | 1 |  |  | T206A | NEW | M16 EYE BOLT 150 - Thread Length 60mm | 2 |  |  | T206H | NEW | M16 EYE BOLT 400 - Thread Length 75mm | 1 |  |  | T208B | NEW | GAIN BLOCK 125mm | 1 |  |  | 66806 | 66806 | Curved Washer 75mm x 75mm x 5.0mm Thick to Fit M16 | 3 |  |  | 75V | 32295 | Bolt Hex M16 X 525 - Thread Length 75mm | 1 |  |  | T205A | NEW | M16 Spring Washer - Galvanised Spring Steel DIN127B (OD: 27mm, ID: 16.2 - 17.0mm, Thickness: 3.5) | 6 |
| Unit Assembly | Store Type   | Item Ref   | Stock Item                | Stock Item Description  | Quantity |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
| DE/66/3/FRP   | S  | 60G  | 321260                    | Insulator Disc Porcelain 16mm 70Kn 146mm  | 15       |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
|               |  | 61A  | 322056                    | Ball Clevis & Pin 16mm  | 3        |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
|               |  | 61B  | 322386                    | Socket Termination 16mm   | 3        |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
|               |  | 61D  | 322090                    | W Clip / Kirk Pin   | 18       |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
|               |  | 75E  | 32279                     | Bolt Hex M16 X 180 - Thread Length 57mm   | 1        |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
|               |  | 75Q  | 32290                     | Bolt Hex M16 X 400 - Thread Length 75mm   | 1        |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
|               |  | 82A  | 40441                     | Nut Hex M16   | 9        |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
|               |  | 86B  | 65158                     | Washer ELS M16  | 1        |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
|               |  | 87D  | 65616                     | Washer NS M16   | 9        |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
|               |  | T200E  | NEW                       | CF XARM - 2840x125x125 - CA-125 SHS 2.834m ARM  | 1        |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
|               |  | T203A  | NEW                       | XARM BRACE - 716x40x8   | 1        |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
|               |  | T206A  | NEW                       | M16 EYE BOLT 150 - Thread Length 60mm   | 2        |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
|               |  | T206H  | NEW                       | M16 EYE BOLT 400 - Thread Length 75mm   | 1        |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
|               |  | T208B  | NEW                       | GAIN BLOCK 125mm  | 1        |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
|               |  | 66806  | 66806                     | Curved Washer 75mm x 75mm x 5.0mm Thick to Fit M16  | 3        |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
|               |  | 75V  | 32295                     | Bolt Hex M16 X 525 - Thread Length 75mm   | 1        |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
|               |  | T205A  | NEW                       | M16 Spring Washer - Galvanised Spring Steel DIN127B (OD: 27mm, ID: 16.2 - 17.0mm, Thickness: 3.5) | 6        |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
| D             |  |  |                           |   |          |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
| E             |  |  |                           |   |          |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
| F             |  |  |                           |   |          |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
| G             |  |  |                           |   |          |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
| H             |  |  |                           |   |          |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
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|               |  | TITLE<br>DEAD END 66KV<br>FRP CROSSARM<br>MATERIAL LIST  |                           |   |          | SCALE<br>NTS  |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
|               |  | DRAWN - ELECTRO<br>DESIGNED BY B.HAYBERRY<br>CHECKED BY K.GOSDEN<br>APPROVED BY<br>DATE APPROVED   | D - OHC - P002 - SD - 002 |   |          | REVISION<br>A |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |
|               |  | NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS |                           |   |          |               |            |          |            |                        |          |             |   |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |

### 4.3 Strain 66kV FRP Crossarm

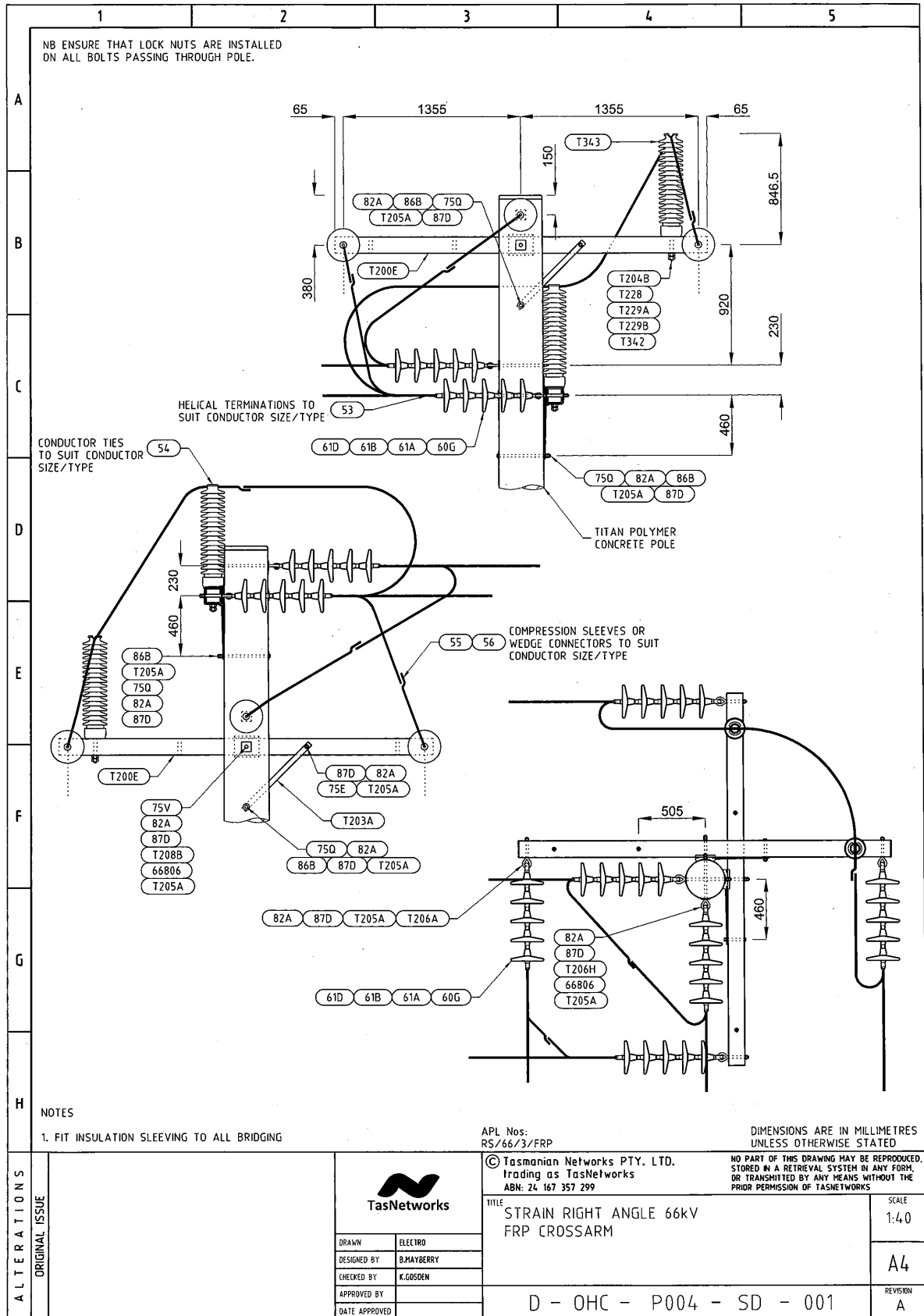







Strain 66kV FRP Crossarm – Material List

|               | 1   | 2        | 3   | 4   | 5  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|---------------|---|----------|---|---|--|---------------|------------|----------|------------|------------------------|----------|------------|---|------|-----|---|---|--|--|-----|--------|--|----|--|--|-----|--------|------------------------|---|--|--|-----|--------|-------------------------|---|--|--|-----|--------|--------------------|----|--|--|-----|-------|---|---|--|--|-----|-------|---|---|--|--|-----|-------|-------------|---|--|--|-----|-------|----------------|---|--|--|-----|-------|---------------|---|--|--|-------|-----|--|---|--|--|-------|-----|-----------------------|---|--|--|-------|-----|--|---|--|--|-------|-----|---------------------------------------|---|--|--|-------|-----|---------------------------------------|---|--|--|-------|-----|-------------|---|--|--|-------|-----|------------------|---|--|--|-------|-------|--|---|--|--|-----|-------|---|---|--|--|-------|-----|---|---|--|--|------|-----|---|---|--|--|-------|-----|---|---|--|--|------|-----|---|---|--|--|-------|-----|---|---|
| A             |   |          |   |   |  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| B             |   |          |   |   |  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| C             | <table border="1"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Stock Item Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>S/66/3/FRP</td> <td>S</td> <td>T343</td> <td>NEW</td> <td>66kV Tie Top Line Post Insulator, Stud Type (Moriynn H11167/ISS7)</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td>60G</td> <td>321260</td> <td>Insulator Disc Porcelain 16mm 70Kn 146mm</td> <td>30</td> </tr> <tr> <td></td> <td></td> <td>61A</td> <td>322056</td> <td>Ball Clevis &amp; Pin 16mm</td> <td>6</td> </tr> <tr> <td></td> <td></td> <td>61B</td> <td>322386</td> <td>Socket Termination 16mm</td> <td>6</td> </tr> <tr> <td></td> <td></td> <td>61D</td> <td>322090</td> <td>*W Clip / Kink Pin</td> <td>36</td> </tr> <tr> <td></td> <td></td> <td>75E</td> <td>32279</td> <td>Bolt Hex M16 X 180 - Thread Length 57mm</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>75Q</td> <td>32290</td> <td>Bolt Hex M16 X 400 - Thread Length 75mm</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>82A</td> <td>40441</td> <td>Nut Hex M16</td> <td>9</td> </tr> <tr> <td></td> <td></td> <td>86B</td> <td>65158</td> <td>Washer ELS M16</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>87D</td> <td>65616</td> <td>Washer NS M16</td> <td>9</td> </tr> <tr> <td></td> <td></td> <td>T200E</td> <td>NEW</td> <td>CF XARM - 2840x125x125 - CA-125 SHS 2.834m ARM</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>T203A</td> <td>NEW</td> <td>XARM BRACE - 716x40x8</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>T204C</td> <td>NEW</td> <td>STUD M24, INSULATOR - (G.V.KINSMAN- 1S-10885) 180mm stem - 39mm head</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td>T206B</td> <td>NEW</td> <td>M16 EYE BOLT 180 - Thread Length 60mm</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>T206P</td> <td>NEW</td> <td>M16 EYE BOLT 425 - Thread Length 75mm</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>T207B</td> <td>NEW</td> <td>M16 EYE NUT</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td>T208B</td> <td>NEW</td> <td>GAIN BLOCK 125mm</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>66806</td> <td>66806</td> <td>Curved Washer 75mm x 75mm x 5.0mm Thick to Fit M16</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td>75V</td> <td>32295</td> <td>Bolt Hex M16 X 525 - Thread Length 75mm</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>T205A</td> <td>NEW</td> <td>M16 Spring Washer - Galvanised Spring Steel DIN127B (OD: 27mm, ID: 16.2 - 17.0mm, Thickness: 3.5)</td> <td>6</td> </tr> <tr> <td></td> <td></td> <td>T228</td> <td>NEW</td> <td>M24 Nut Hex (36mm across Flats, 21mm Thick)</td> <td>6</td> </tr> <tr> <td></td> <td></td> <td>T229A</td> <td>NEW</td> <td>M24 Washer NS (ID-26mm, OD-48mm, Thickness 4.0mm)</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td>T342</td> <td>NEW</td> <td>M24 Lock/Half Nut - Thickness 7.0 - 9.0mm</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td>T229B</td> <td>NEW</td> <td>M24 Spring Washer - Galvanised Spring Steel DIN127B (OD: 40mm, ID: 24.5 - 25.5mm, Thickness: 5.0)</td> <td>3</td> </tr> </tbody> </table> |          |   |   |  | Unit Assembly | Store Type | Item Ref | Stock Item | Stock Item Description | Quantity | S/66/3/FRP | S | T343 | NEW | 66kV Tie Top Line Post Insulator, Stud Type (Moriynn H11167/ISS7) | 3 |  |  | 60G | 321260 | Insulator Disc Porcelain 16mm 70Kn 146mm | 30 |  |  | 61A | 322056 | Ball Clevis & Pin 16mm | 6 |  |  | 61B | 322386 | Socket Termination 16mm | 6 |  |  | 61D | 322090 | *W Clip / Kink Pin | 36 |  |  | 75E | 32279 | Bolt Hex M16 X 180 - Thread Length 57mm | 1 |  |  | 75Q | 32290 | Bolt Hex M16 X 400 - Thread Length 75mm | 1 |  |  | 82A | 40441 | Nut Hex M16 | 9 |  |  | 86B | 65158 | Washer ELS M16 | 1 |  |  | 87D | 65616 | Washer NS M16 | 9 |  |  | T200E | NEW | CF XARM - 2840x125x125 - CA-125 SHS 2.834m ARM | 1 |  |  | T203A | NEW | XARM BRACE - 716x40x8 | 1 |  |  | T204C | NEW | STUD M24, INSULATOR - (G.V.KINSMAN- 1S-10885) 180mm stem - 39mm head | 3 |  |  | T206B | NEW | M16 EYE BOLT 180 - Thread Length 60mm | 2 |  |  | T206P | NEW | M16 EYE BOLT 425 - Thread Length 75mm | 1 |  |  | T207B | NEW | M16 EYE NUT | 3 |  |  | T208B | NEW | GAIN BLOCK 125mm | 1 |  |  | 66806 | 66806 | Curved Washer 75mm x 75mm x 5.0mm Thick to Fit M16 | 3 |  |  | 75V | 32295 | Bolt Hex M16 X 525 - Thread Length 75mm | 1 |  |  | T205A | NEW | M16 Spring Washer - Galvanised Spring Steel DIN127B (OD: 27mm, ID: 16.2 - 17.0mm, Thickness: 3.5) | 6 |  |  | T228 | NEW | M24 Nut Hex (36mm across Flats, 21mm Thick) | 6 |  |  | T229A | NEW | M24 Washer NS (ID-26mm, OD-48mm, Thickness 4.0mm) | 3 |  |  | T342 | NEW | M24 Lock/Half Nut - Thickness 7.0 - 9.0mm | 3 |  |  | T229B | NEW | M24 Spring Washer - Galvanised Spring Steel DIN127B (OD: 40mm, ID: 24.5 - 25.5mm, Thickness: 5.0) | 3 |
| Unit Assembly | Store Type  | Item Ref | Stock Item  | Stock Item Description  | Quantity   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| S/66/3/FRP    | S   | T343     | NEW   | 66kV Tie Top Line Post Insulator, Stud Type (Moriynn H11167/ISS7)                                 | 3  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | 60G      | 321260  | Insulator Disc Porcelain 16mm 70Kn 146mm  | 30   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | 61A      | 322056  | Ball Clevis & Pin 16mm  | 6  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | 61B      | 322386  | Socket Termination 16mm   | 6  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | 61D      | 322090  | *W Clip / Kink Pin  | 36   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | 75E      | 32279   | Bolt Hex M16 X 180 - Thread Length 57mm   | 1  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | 75Q      | 32290   | Bolt Hex M16 X 400 - Thread Length 75mm   | 1  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | 82A      | 40441   | Nut Hex M16   | 9  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | 86B      | 65158   | Washer ELS M16  | 1  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | 87D      | 65616   | Washer NS M16   | 9  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | T200E    | NEW   | CF XARM - 2840x125x125 - CA-125 SHS 2.834m ARM  | 1  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | T203A    | NEW   | XARM BRACE - 716x40x8   | 1  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | T204C    | NEW   | STUD M24, INSULATOR - (G.V.KINSMAN- 1S-10885) 180mm stem - 39mm head                              | 3  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | T206B    | NEW   | M16 EYE BOLT 180 - Thread Length 60mm   | 2  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | T206P    | NEW   | M16 EYE BOLT 425 - Thread Length 75mm   | 1  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | T207B    | NEW   | M16 EYE NUT   | 3  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | T208B    | NEW   | GAIN BLOCK 125mm  | 1  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | 66806    | 66806   | Curved Washer 75mm x 75mm x 5.0mm Thick to Fit M16  | 3  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | 75V      | 32295   | Bolt Hex M16 X 525 - Thread Length 75mm   | 1  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | T205A    | NEW   | M16 Spring Washer - Galvanised Spring Steel DIN127B (OD: 27mm, ID: 16.2 - 17.0mm, Thickness: 3.5) | 6  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | T228     | NEW   | M24 Nut Hex (36mm across Flats, 21mm Thick)   | 6  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | T229A    | NEW   | M24 Washer NS (ID-26mm, OD-48mm, Thickness 4.0mm)   | 3  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | T342     | NEW   | M24 Lock/Half Nut - Thickness 7.0 - 9.0mm   | 3  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   | T229B    | NEW   | M24 Spring Washer - Galvanised Spring Steel DIN127B (OD: 40mm, ID: 24.5 - 25.5mm, Thickness: 5.0) | 3  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| D             |   |          |   |   |  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| E             |   |          |   |   |  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| F             |   |          |   |   |  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| G             |   |          |   |   |  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| H             |   |          |   |   |  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| ALTERATIONS   | ORIGINAL ISSUE  |          |                    |   | © Tasmanian Networks PTY. LTD.<br>Trading as TasNetworks<br>ABN: 24 167 357 299  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |   |          | DRAWN: ELECTRO<br>DESIGNED BY: B. HAYBERRY<br>CHECKED BY: K. GOSDEN<br>APPROVED BY:<br>DATE APPROVED: |   | NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS<br>TITLE: STRAIN 66KV FRP CROSSARM MATERIAL LIST<br>SCALE: NTS<br>A4<br>REVISION: A |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               | D - OHC - P003 - SD - 002   |          |   |   |  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                    |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |   |  |  |     |       |                |   |  |  |     |       |               |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |             |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |

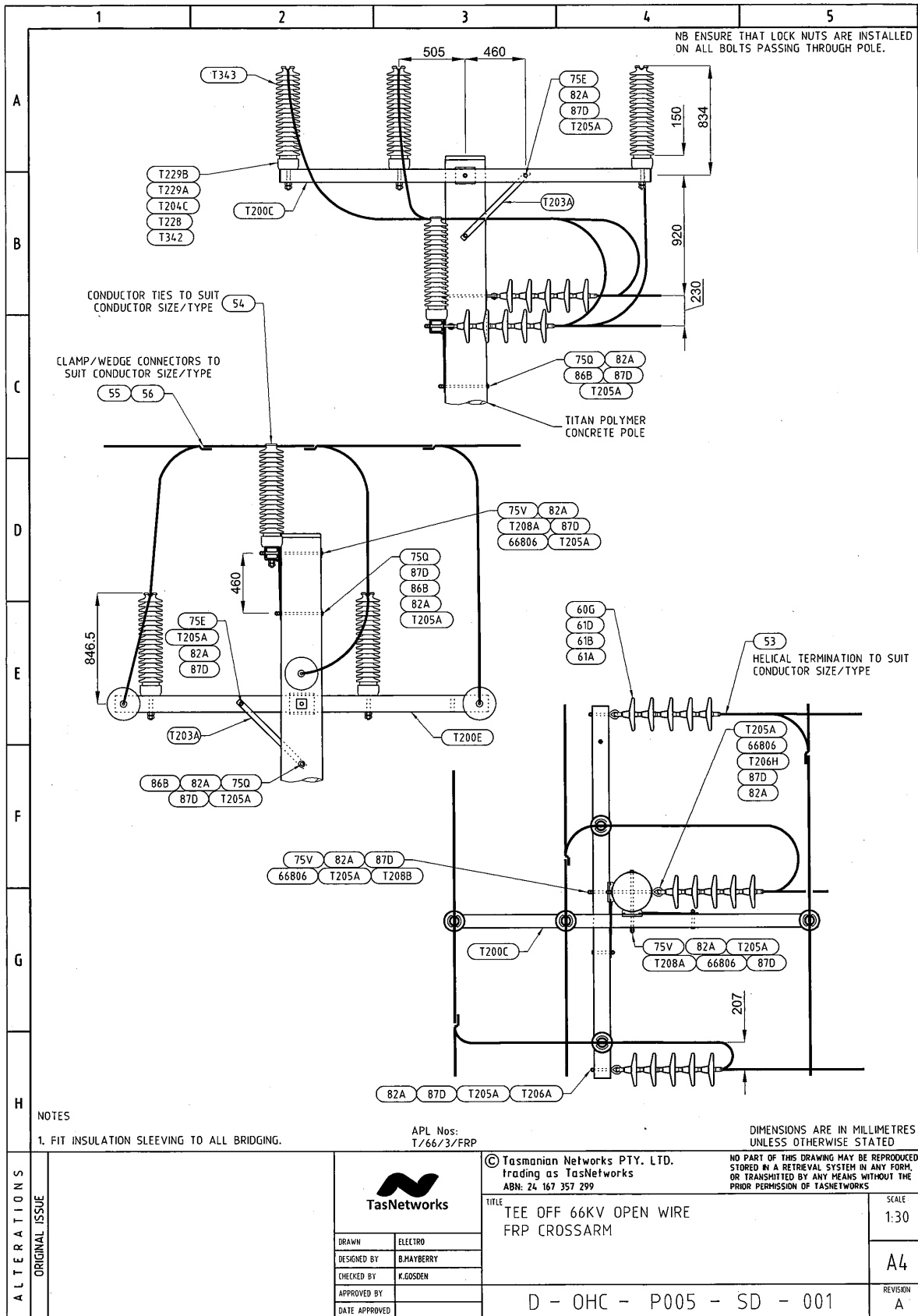
### 4.4 Strain Right Angle 66kV FRP Crossarm




Strain Right Angle 66kV FRP Crossarm – Material List

|                | 1   | 2          | 3   | 4   | 5   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|----------------|---|------------|---|---|---|----------------|---|----------|---|------------------------|---|-------------|--------|---|-----|---|------------|------------|----|-------------|----------|--|----|---------------|---------------|-----|--------|------------------------|---|--|--|-----|--------|-------------------------|---|--|--|-----|--------|-------------------|----|--|--|-----|-------|---|---|--|--|-----|-------|---|---|--|--|-----|-------|-------------|----|--|--|-----|-------|----------------|---|--|--|-----|-------|---------------|----|--|--|-------|-----|--|---|--|--|-------|-----|-----------------------|---|--|--|-------|-----|--|---|--|--|-------|-----|---------------------------------------|---|--|--|-------|-----|---------------------------------------|---|--|--|-------|-----|------------------|---|--|--|-------|-------|--|---|--|--|-----|-------|---|---|--|--|-------|-----|---|----|--|--|------|-----|---|---|--|--|-------|-----|---|---|--|--|------|-----|---|---|--|--|-------|-----|---|---|
| A              |   |            |   |   |   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| B              |   |            |   |   |   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| C              | <table border="1"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Stock Item Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>RS/66/3/FRP</td> <td>S</td> <td>T343</td> <td>NEW</td> <td>66kV Tie Top Line Post Insulator, Stud Type (Moriynn H11167/ISS7)</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>60G</td> <td>321260</td> <td>Insulator Disc Porcelain 16mm 70Kn 146mm</td> <td>30</td> </tr> <tr> <td></td> <td></td> <td>61A</td> <td>322056</td> <td>Ball Clevis &amp; Pin 16mm</td> <td>6</td> </tr> <tr> <td></td> <td></td> <td>61B</td> <td>322386</td> <td>Socket Termination 16mm</td> <td>6</td> </tr> <tr> <td></td> <td></td> <td>61D</td> <td>322090</td> <td>W Clip / Kink Pin</td> <td>36</td> </tr> <tr> <td></td> <td></td> <td>75E</td> <td>32279</td> <td>Bolt Hex M16 X 180 - Thread Length 57mm</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>75Q</td> <td>32290</td> <td>Bolt Hex M16 X 400 - Thread Length 75mm</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>82A</td> <td>40441</td> <td>Nut Hex M16</td> <td>18</td> </tr> <tr> <td></td> <td></td> <td>86B</td> <td>65158</td> <td>Washer ELS M16</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>87D</td> <td>65616</td> <td>Washer NS M16</td> <td>18</td> </tr> <tr> <td></td> <td></td> <td>T200E</td> <td>NEW</td> <td>CF XARM - 2840x125x125 - CA-125 SHS 2.834m ARM</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>T203A</td> <td>NEW</td> <td>XARM BRACE - 716x40x8</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>T204C</td> <td>NEW</td> <td>STUD M24, INSULATOR - (G.V.KINSMAN- 1S-10885) 180mm stem - 39mm head</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>T206A</td> <td>NEW</td> <td>M16 EYE BOLT 150 - Thread Length 60mm</td> <td>4</td> </tr> <tr> <td></td> <td></td> <td>T206H</td> <td>NEW</td> <td>M16 EYE BOLT 400 - Thread Length 75mm</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>T208B</td> <td>NEW</td> <td>GAIN BLOCK 125mm</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>66806</td> <td>66806</td> <td>Curved Washer 75mm x 75mm x 5.0mm Thick to Fit M16</td> <td>6</td> </tr> <tr> <td></td> <td></td> <td>75V</td> <td>32295</td> <td>Bolt Hex M16 X 525 - Thread Length 75mm</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>T205A</td> <td>NEW</td> <td>M16 Spring Washer - Galvanised Spring Steel DIN127B (OD: 27mm, ID: 16.2 - 17.0mm, Thickness: 3.5)</td> <td>12</td> </tr> <tr> <td></td> <td></td> <td>T228</td> <td>NEW</td> <td>M24 Nut Hex (36mm across Flats, 21mm Thick)</td> <td>4</td> </tr> <tr> <td></td> <td></td> <td>T229A</td> <td>NEW</td> <td>M24 Washer NS (ID=26mm, OD=48mm, Thickness 4.0mm)</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>T342</td> <td>NEW</td> <td>M24 Lock/Half Nut - Thickness 7.0 - 9.0mm</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>T229B</td> <td>NEW</td> <td>M24 Spring Washer - Galvanised Spring Steel DIN127B (OD: 40mm, ID: 24.5 - 25.5mm, Thickness: 5.0)</td> <td>2</td> </tr> </tbody> </table> |            |   |   |   | Unit Assembly  | Store Type  | Item Ref | Stock Item  | Stock Item Description | Quantity  | RS/66/3/FRP | S      | T343  | NEW | 66kV Tie Top Line Post Insulator, Stud Type (Moriynn H11167/ISS7) | 2          |            |    | 60G         | 321260   | Insulator Disc Porcelain 16mm 70Kn 146mm | 30 |               |               | 61A | 322056 | Ball Clevis & Pin 16mm | 6 |  |  | 61B | 322386 | Socket Termination 16mm | 6 |  |  | 61D | 322090 | W Clip / Kink Pin | 36 |  |  | 75E | 32279 | Bolt Hex M16 X 180 - Thread Length 57mm | 2 |  |  | 75Q | 32290 | Bolt Hex M16 X 400 - Thread Length 75mm | 2 |  |  | 82A | 40441 | Nut Hex M16 | 18 |  |  | 86B | 65158 | Washer ELS M16 | 2 |  |  | 87D | 65616 | Washer NS M16 | 18 |  |  | T200E | NEW | CF XARM - 2840x125x125 - CA-125 SHS 2.834m ARM | 2 |  |  | T203A | NEW | XARM BRACE - 716x40x8 | 2 |  |  | T204C | NEW | STUD M24, INSULATOR - (G.V.KINSMAN- 1S-10885) 180mm stem - 39mm head | 2 |  |  | T206A | NEW | M16 EYE BOLT 150 - Thread Length 60mm | 4 |  |  | T206H | NEW | M16 EYE BOLT 400 - Thread Length 75mm | 2 |  |  | T208B | NEW | GAIN BLOCK 125mm | 2 |  |  | 66806 | 66806 | Curved Washer 75mm x 75mm x 5.0mm Thick to Fit M16 | 6 |  |  | 75V | 32295 | Bolt Hex M16 X 525 - Thread Length 75mm | 2 |  |  | T205A | NEW | M16 Spring Washer - Galvanised Spring Steel DIN127B (OD: 27mm, ID: 16.2 - 17.0mm, Thickness: 3.5) | 12 |  |  | T228 | NEW | M24 Nut Hex (36mm across Flats, 21mm Thick) | 4 |  |  | T229A | NEW | M24 Washer NS (ID=26mm, OD=48mm, Thickness 4.0mm) | 2 |  |  | T342 | NEW | M24 Lock/Half Nut - Thickness 7.0 - 9.0mm | 2 |  |  | T229B | NEW | M24 Spring Washer - Galvanised Spring Steel DIN127B (OD: 40mm, ID: 24.5 - 25.5mm, Thickness: 5.0) | 2 |
| Unit Assembly  | Store Type  | Item Ref   | Stock Item  | Stock Item Description  | Quantity  |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| RS/66/3/FRP    | S   | T343       | NEW   | 66kV Tie Top Line Post Insulator, Stud Type (Moriynn H11167/ISS7)                                 | 2   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                |   | 60G        | 321260  | Insulator Disc Porcelain 16mm 70Kn 146mm  | 30  |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                |   | 61A        | 322056  | Ball Clevis & Pin 16mm  | 6   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                |   | 61B        | 322386  | Socket Termination 16mm   | 6   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                |   | 61D        | 322090  | W Clip / Kink Pin   | 36  |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                |   | 75E        | 32279   | Bolt Hex M16 X 180 - Thread Length 57mm   | 2   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                |   | 75Q        | 32290   | Bolt Hex M16 X 400 - Thread Length 75mm   | 2   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                |   | 82A        | 40441   | Nut Hex M16   | 18  |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                |   | 86B        | 65158   | Washer ELS M16  | 2   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                |   | 87D        | 65616   | Washer NS M16   | 18  |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                |   | T200E      | NEW   | CF XARM - 2840x125x125 - CA-125 SHS 2.834m ARM  | 2   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                |   | T203A      | NEW   | XARM BRACE - 716x40x8   | 2   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                |   | T204C      | NEW   | STUD M24, INSULATOR - (G.V.KINSMAN- 1S-10885) 180mm stem - 39mm head                              | 2   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                |   | T206A      | NEW   | M16 EYE BOLT 150 - Thread Length 60mm   | 4   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                |   | T206H      | NEW   | M16 EYE BOLT 400 - Thread Length 75mm   | 2   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                |   | T208B      | NEW   | GAIN BLOCK 125mm  | 2   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                |   | 66806      | 66806   | Curved Washer 75mm x 75mm x 5.0mm Thick to Fit M16  | 6   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                |   | 75V        | 32295   | Bolt Hex M16 X 525 - Thread Length 75mm   | 2   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                |   | T205A      | NEW   | M16 Spring Washer - Galvanised Spring Steel DIN127B (OD: 27mm, ID: 16.2 - 17.0mm, Thickness: 3.5) | 12  |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                |   | T228       | NEW   | M24 Nut Hex (36mm across Flats, 21mm Thick)   | 4   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                |   | T229A      | NEW   | M24 Washer NS (ID=26mm, OD=48mm, Thickness 4.0mm)   | 2   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                |   | T342       | NEW   | M24 Lock/Half Nut - Thickness 7.0 - 9.0mm   | 2   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                |   | T229B      | NEW   | M24 Spring Washer - Galvanised Spring Steel DIN127B (OD: 40mm, ID: 24.5 - 25.5mm, Thickness: 5.0) | 2   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| D              |   |            |   |   |   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| E              |   |            |   |   |   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| F              |   |            |   |   |   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| G              |   |            |   |   |   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| H              |   |            |   |   |   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| ALTERATIONS    | <table border="1"> <tr> <td rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">ORIGINAL ISSUE</td> <td colspan="2" style="text-align: center;"></td> <td colspan="2">© Tasmanian Networks PTY. LTD.<br/>trading as TasNetworks<br/>ABN: 24 167 357 299</td> <td>NO PART OF THIS DRAWING MAY BE REPRODUCED,<br/>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br/>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br/>PRIOR PERMISSION OF TASNETWORKS</td> </tr> <tr> <td>DESIGNED BY</td> <td>ELETRD</td> <td colspan="2" rowspan="2">TITLE<br/>STRAIN RIGHT ANGLE 66kV<br/>FRP CROSSARM<br/>MATERIAL LIST</td> <td>SCALE<br/>NTS</td> </tr> <tr> <td>CHECKED BY</td> <td>B.MAYBERRY</td> <td>A4</td> </tr> <tr> <td>APPROVED BY</td> <td>K.GOSDEN</td> <td colspan="2" rowspan="2">D - OHC - P004 - SD - 002</td> <td>REVISION<br/>A</td> </tr> <tr> <td>DATE APPROVED</td> <td></td> </tr> </table>   |            |   |   |   | ORIGINAL ISSUE |  |          | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299 |                        | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNETWORKS | DESIGNED BY | ELETRD | TITLE<br>STRAIN RIGHT ANGLE 66kV<br>FRP CROSSARM<br>MATERIAL LIST |     | SCALE<br>NTS  | CHECKED BY | B.MAYBERRY | A4 | APPROVED BY | K.GOSDEN | D - OHC - P004 - SD - 002                |    | REVISION<br>A | DATE APPROVED |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
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|                | DESIGNED BY   | ELETRD     | TITLE<br>STRAIN RIGHT ANGLE 66kV<br>FRP CROSSARM<br>MATERIAL LIST               |   | SCALE<br>NTS  |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                | CHECKED BY  | B.MAYBERRY |   |   | A4  |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                | APPROVED BY   | K.GOSDEN   | D - OHC - P004 - SD - 002   |   | REVISION<br>A   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|                | DATE APPROVED   |            |   |   |   |                |   |          |   |                        |   |             |        |   |     |   |            |            |    |             |          |  |    |               |               |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |    |  |  |      |     |   |   |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |

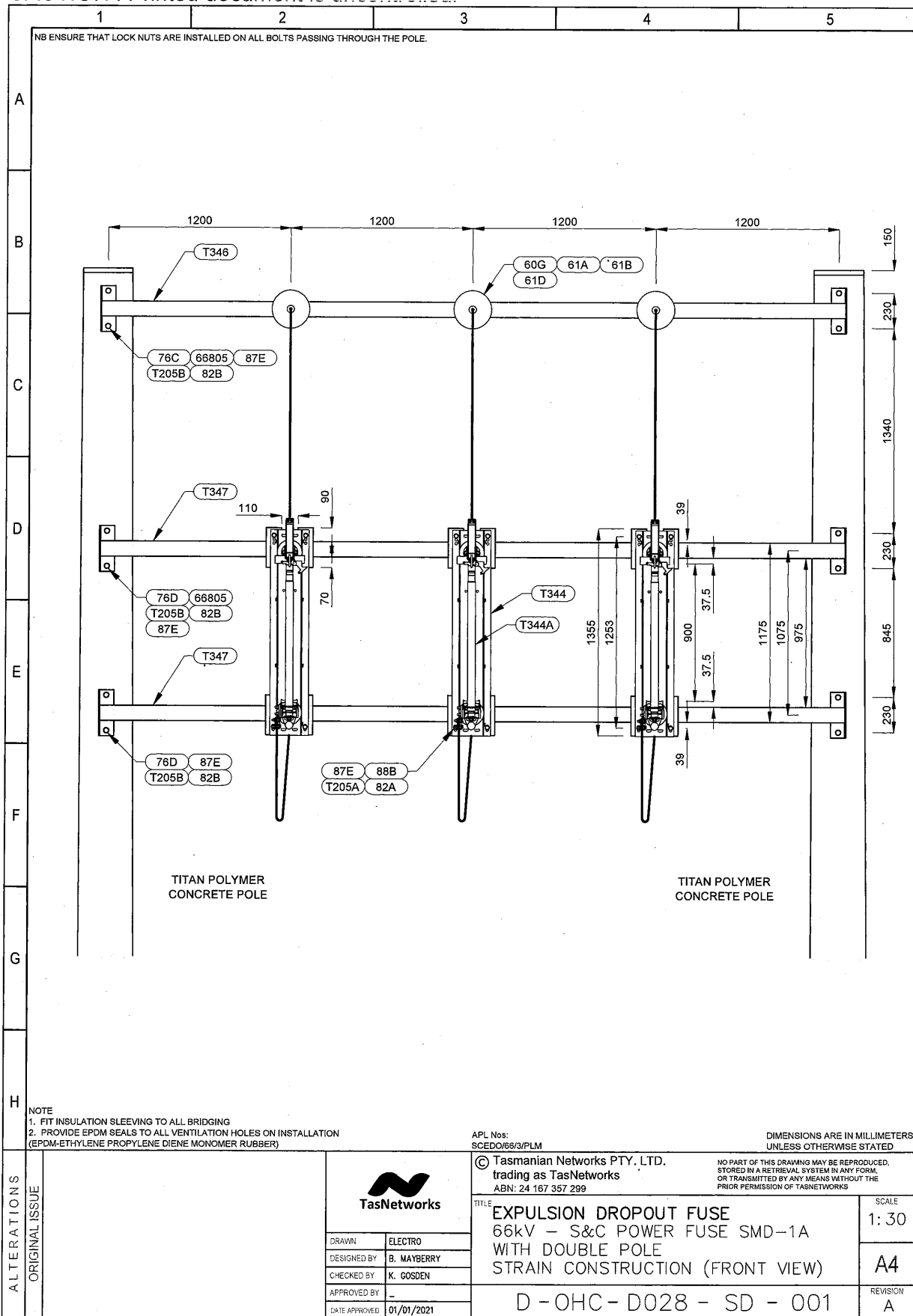
### 4.5 Tee Off Open Wire 66kV FRP Crossarm



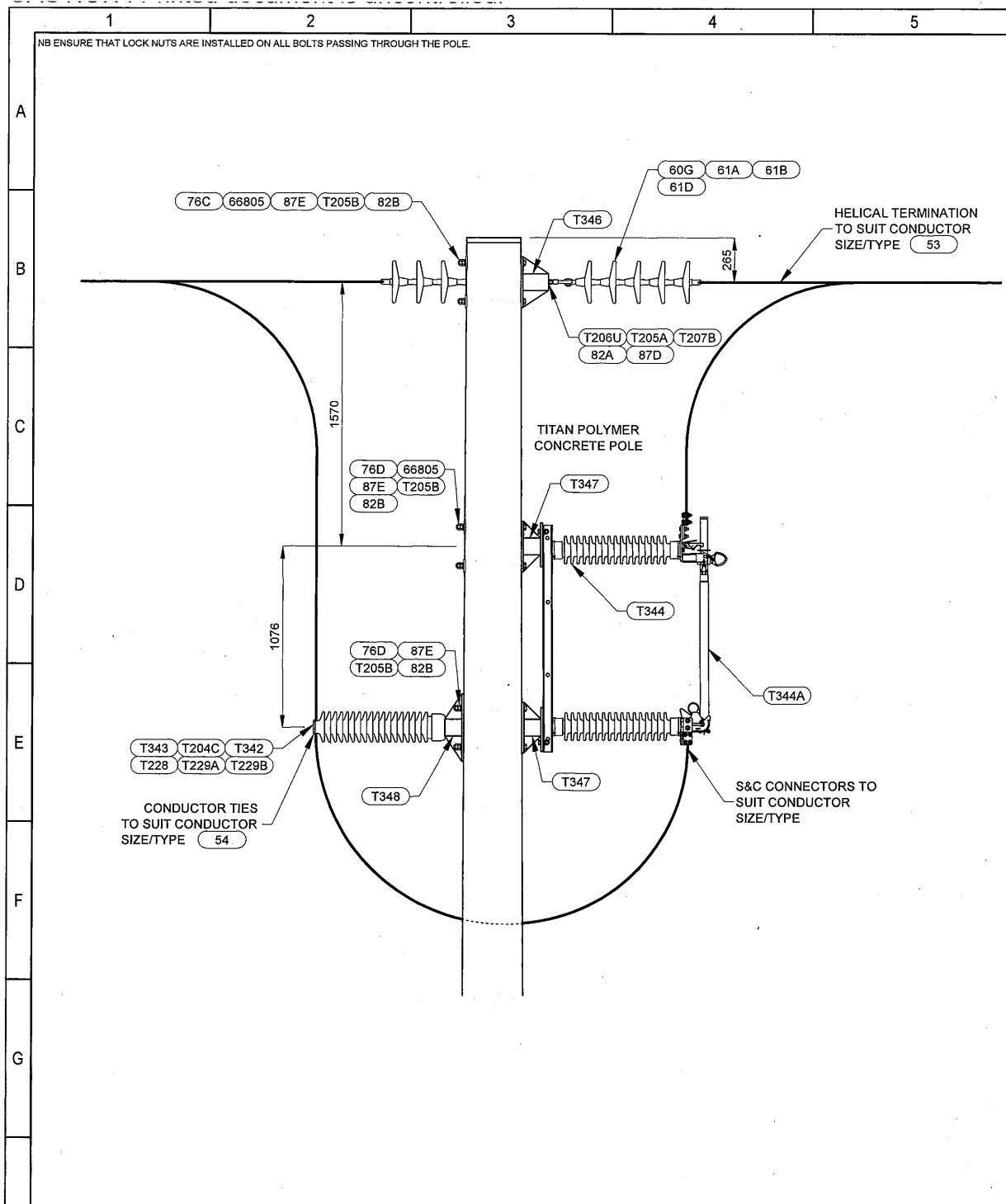
Tee Off Open Wire 66kV FRP Crossarm – Material List

|               | 1  | 2   | 3          | 4   | 5   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|---------------|--|---|------------|---|---|---------------|------------|----------|------------|------------------------|----------|------------|---|------|-----|---|---|--|--|-----|--------|--|----|--|--|-----|--------|------------------------|---|--|--|-----|--------|-------------------------|---|--|--|-----|--------|-------------------|----|--|--|-----|-------|---|---|--|--|-----|-------|---|---|--|--|-----|-------|-------------|----|--|--|-----|-------|----------------|---|--|--|-----|-------|---------------|----|---|--|-------|-----|--|---|--|--|-------|-----|--|---|--|--|-------|-----|-----------------------|---|--|--|-------|-----|--|---|--|--|-------|-----|---------------------------------------|---|--|--|-------|-----|---------------------------------------|---|--|--|-------|-----|------------------|---|--|--|-------|-----|------------------|---|---|--|-------|-------|--|---|--|--|-----|-------|---|---|--|--|-------|-----|---|---|--|--|------|-----|---|----|--|--|-------|-----|---|---|--|--|------|-----|---|---|--|--|-------|-----|---|---|
| A             |  |   |            |   |   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| B             |  |   |            |   |   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| C             | <table border="1"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Stock Item Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr> <td>T/66/3/FRP</td> <td>S</td> <td>T343</td> <td>NEW</td> <td>66kV Tie Top Line Post Insulator, Stud Type (Moriynn H11167/ISS7)</td> <td>5</td> </tr> <tr> <td></td> <td></td> <td>60G</td> <td>321260</td> <td>Insulator Disc Porcelain 16mm 70Kn 146mm</td> <td>15</td> </tr> <tr> <td></td> <td></td> <td>61A</td> <td>322056</td> <td>Ball Clevis &amp; Pin 16mm</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td>61B</td> <td>322386</td> <td>Socket Termination 16mm</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td>61D</td> <td>322090</td> <td>W Clip / Kink Pin</td> <td>18</td> </tr> <tr> <td></td> <td></td> <td>75E</td> <td>32279</td> <td>Bolt Hex M16 X 180 - Thread Length 57mm</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>75Q</td> <td>32290</td> <td>Bolt Hex M16 X 400 - Thread Length 75mm</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>82A</td> <td>40441</td> <td>Nut Hex M16</td> <td>14</td> </tr> <tr> <td></td> <td></td> <td>86B</td> <td>65158</td> <td>Washer ELS M16</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>87D</td> <td>65616</td> <td>Washer NS M16</td> <td>13</td> </tr> <tr> <td>D</td> <td></td> <td>T200C</td> <td>NEW</td> <td>CF XARM - 2840x100x100 - CA-100 SHS 2.834m ARM</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>T200E</td> <td>NEW</td> <td>CF XARM - 2840x125x125 - CA-125 SHS 2.834m ARM</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>T203A</td> <td>NEW</td> <td>XARM BRACE - 716x40x8</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>T204C</td> <td>NEW</td> <td>STUD M24, INSULATOR - (G.V.KINSMAN- 1S-10885\1) 180mm stem - 39mm head</td> <td>5</td> </tr> <tr> <td></td> <td></td> <td>T206A</td> <td>NEW</td> <td>M16 EYE BOLT 150 - Thread Length 60mm</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>T206H</td> <td>NEW</td> <td>M16 EYE BOLT 400 - Thread Length 75mm</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>T208A</td> <td>NEW</td> <td>GAIN BLOCK 100mm</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>T208B</td> <td>NEW</td> <td>GAIN BLOCK 125mm</td> <td>1</td> </tr> <tr> <td>E</td> <td></td> <td>66806</td> <td>66806</td> <td>Curved Washer 75mm x 75mm x 5.0mm Thick to Fit M16</td> <td>4</td> </tr> <tr> <td></td> <td></td> <td>75V</td> <td>32295</td> <td>Bolt Hex M16 X 525 - Thread Length 75mm</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>T205A</td> <td>NEW</td> <td>M16 Spring Washer - Galvanised Spring Steel DIN127B (OD: 27mm, ID: 16.2 - 17.0mm, Thickness: 3.5)</td> <td>9</td> </tr> <tr> <td></td> <td></td> <td>T228</td> <td>NEW</td> <td>M24 Nut Hex (36mm across Flats, 21mm Thick)</td> <td>10</td> </tr> <tr> <td></td> <td></td> <td>T229A</td> <td>NEW</td> <td>M24 Washer NS (ID-26mm, OD-48mm, Thickness 4.0mm)</td> <td>5</td> </tr> <tr> <td></td> <td></td> <td>T342</td> <td>NEW</td> <td>M24 Lock/Half Nut - Thickness 7.0 - 9.0mm</td> <td>5</td> </tr> <tr> <td></td> <td></td> <td>T229B</td> <td>NEW</td> <td>M24 Spring Washer - Galvanised Spring Steel DIN127B (OD: 40mm, ID: 24.5 - 25.5mm, Thickness: 5.0)</td> <td>5</td> </tr> </tbody> </table> |   |            |   |   | Unit Assembly | Store Type | Item Ref | Stock Item | Stock Item Description | Quantity | T/66/3/FRP | S | T343 | NEW | 66kV Tie Top Line Post Insulator, Stud Type (Moriynn H11167/ISS7) | 5 |  |  | 60G | 321260 | Insulator Disc Porcelain 16mm 70Kn 146mm | 15 |  |  | 61A | 322056 | Ball Clevis & Pin 16mm | 3 |  |  | 61B | 322386 | Socket Termination 16mm | 3 |  |  | 61D | 322090 | W Clip / Kink Pin | 18 |  |  | 75E | 32279 | Bolt Hex M16 X 180 - Thread Length 57mm | 2 |  |  | 75Q | 32290 | Bolt Hex M16 X 400 - Thread Length 75mm | 2 |  |  | 82A | 40441 | Nut Hex M16 | 14 |  |  | 86B | 65158 | Washer ELS M16 | 2 |  |  | 87D | 65616 | Washer NS M16 | 13 | D |  | T200C | NEW | CF XARM - 2840x100x100 - CA-100 SHS 2.834m ARM | 1 |  |  | T200E | NEW | CF XARM - 2840x125x125 - CA-125 SHS 2.834m ARM | 1 |  |  | T203A | NEW | XARM BRACE - 716x40x8 | 2 |  |  | T204C | NEW | STUD M24, INSULATOR - (G.V.KINSMAN- 1S-10885\1) 180mm stem - 39mm head | 5 |  |  | T206A | NEW | M16 EYE BOLT 150 - Thread Length 60mm | 2 |  |  | T206H | NEW | M16 EYE BOLT 400 - Thread Length 75mm | 1 |  |  | T208A | NEW | GAIN BLOCK 100mm | 1 |  |  | T208B | NEW | GAIN BLOCK 125mm | 1 | E |  | 66806 | 66806 | Curved Washer 75mm x 75mm x 5.0mm Thick to Fit M16 | 4 |  |  | 75V | 32295 | Bolt Hex M16 X 525 - Thread Length 75mm | 2 |  |  | T205A | NEW | M16 Spring Washer - Galvanised Spring Steel DIN127B (OD: 27mm, ID: 16.2 - 17.0mm, Thickness: 3.5) | 9 |  |  | T228 | NEW | M24 Nut Hex (36mm across Flats, 21mm Thick) | 10 |  |  | T229A | NEW | M24 Washer NS (ID-26mm, OD-48mm, Thickness 4.0mm) | 5 |  |  | T342 | NEW | M24 Lock/Half Nut - Thickness 7.0 - 9.0mm | 5 |  |  | T229B | NEW | M24 Spring Washer - Galvanised Spring Steel DIN127B (OD: 40mm, ID: 24.5 - 25.5mm, Thickness: 5.0) | 5 |
| Unit Assembly | Store Type   | Item Ref  | Stock Item | Stock Item Description  | Quantity  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| T/66/3/FRP    | S  | T343  | NEW        | 66kV Tie Top Line Post Insulator, Stud Type (Moriynn H11167/ISS7)                                 | 5   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  | 60G   | 321260     | Insulator Disc Porcelain 16mm 70Kn 146mm  | 15  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  | 61A   | 322056     | Ball Clevis & Pin 16mm  | 3   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  | 61B   | 322386     | Socket Termination 16mm   | 3   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  | 61D   | 322090     | W Clip / Kink Pin   | 18  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  | 75E   | 32279      | Bolt Hex M16 X 180 - Thread Length 57mm   | 2   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  | 75Q   | 32290      | Bolt Hex M16 X 400 - Thread Length 75mm   | 2   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  | 82A   | 40441      | Nut Hex M16   | 14  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  | 86B   | 65158      | Washer ELS M16  | 2   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  | 87D   | 65616      | Washer NS M16   | 13  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| D             |  | T200C   | NEW        | CF XARM - 2840x100x100 - CA-100 SHS 2.834m ARM  | 1   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  | T200E   | NEW        | CF XARM - 2840x125x125 - CA-125 SHS 2.834m ARM  | 1   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  | T203A   | NEW        | XARM BRACE - 716x40x8   | 2   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  | T204C   | NEW        | STUD M24, INSULATOR - (G.V.KINSMAN- 1S-10885\1) 180mm stem - 39mm head                            | 5   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  | T206A   | NEW        | M16 EYE BOLT 150 - Thread Length 60mm   | 2   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  | T206H   | NEW        | M16 EYE BOLT 400 - Thread Length 75mm   | 1   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  | T208A   | NEW        | GAIN BLOCK 100mm  | 1   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  | T208B   | NEW        | GAIN BLOCK 125mm  | 1   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| E             |  | 66806   | 66806      | Curved Washer 75mm x 75mm x 5.0mm Thick to Fit M16  | 4   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  | 75V   | 32295      | Bolt Hex M16 X 525 - Thread Length 75mm   | 2   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  | T205A   | NEW        | M16 Spring Washer - Galvanised Spring Steel DIN127B (OD: 27mm, ID: 16.2 - 17.0mm, Thickness: 3.5) | 9   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  | T228  | NEW        | M24 Nut Hex (36mm across Flats, 21mm Thick)   | 10  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  | T229A   | NEW        | M24 Washer NS (ID-26mm, OD-48mm, Thickness 4.0mm)   | 5   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  | T342  | NEW        | M24 Lock/Half Nut - Thickness 7.0 - 9.0mm   | 5   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  | T229B   | NEW        | M24 Spring Washer - Galvanised Spring Steel DIN127B (OD: 40mm, ID: 24.5 - 25.5mm, Thickness: 5.0) | 5   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| F             |  |   |            |   |   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| G             |  |   |            |   |   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
| H             |  |   |            |   |   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
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|               |  | DRAWN: ELECTRO<br>DESIGNED BY: B.MAYBERRY<br>CHECKED BY: K.GOSDEN<br>APPROVED BY:<br>DATE APPROVED: |            |   | TITLE<br>TEE OFF 66KV OPEN WIRE<br>FRP CROSSARM<br>MATERIAL LIST  |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
|               |  |   |            |   | SCALE<br>NTS<br>A4<br>REVISION<br>A   |               |            |          |            |                        |          |            |   |      |     |   |   |  |  |     |        |  |    |  |  |     |        |                        |   |  |  |     |        |                         |   |  |  |     |        |                   |    |  |  |     |       |   |   |  |  |     |       |   |   |  |  |     |       |             |    |  |  |     |       |                |   |  |  |     |       |               |    |   |  |       |     |  |   |  |  |       |     |  |   |  |  |       |     |                       |   |  |  |       |     |  |   |  |  |       |     |                                       |   |  |  |       |     |                                       |   |  |  |       |     |                  |   |  |  |       |     |                  |   |   |  |       |       |  |   |  |  |     |       |   |   |  |  |       |     |   |   |  |  |      |     |   |    |  |  |       |     |   |   |  |  |      |     |   |   |  |  |       |     |   |   |
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4.6 Double Pole Strain 66kV – S&C Fuse – Front view



# Double Pole Strain 66kV – S&C Fuse – Side view



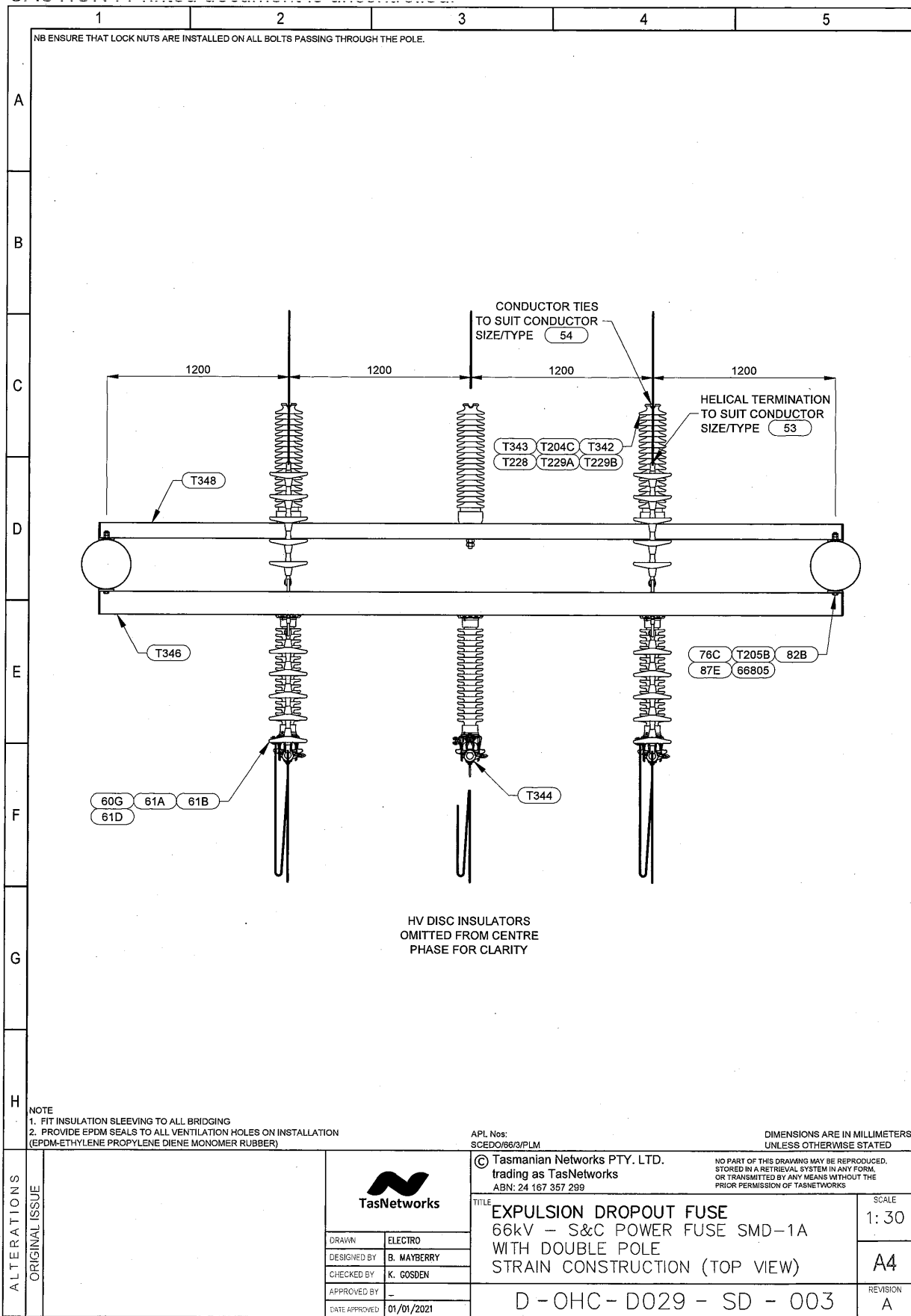
NOTE  
 1. FIT INSULATION SLEEVING TO ALL BRIDGING  
 2. PROVIDE EPDM SEALS TO ALL VENTILATION HOLES ON INSTALLATION (EPDM-ETHYLENE PROPYLENE DIENE MONOMER RUBBER)

APL Nos: SCEDO/86/3/PLM

DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED


|                             |                |                            |  |  |  |  |  |               |  |
|-----------------------------|----------------|----------------------------|--|--|--|--|--|---------------|--|
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|                             |                |                            |  | TITLE<br>EXPULSION DROPOUT FUSE<br>66kV – S&C POWER FUSE SMD-1A<br>WITH DOUBLE POLE<br>STRAIN CONSTRUCTION (SIDE VIEW) |  | SCALE<br>1:30  |  |               |  |
|                             |                | DRAWN BY<br>ELECTRO        |  |  |  | A4   |  | REVISION<br>A |  |
|                             |                | DESIGNED BY<br>B. MAYBERRY |  |  |  |  |  |               |  |
|                             |                | CHECKED BY<br>K. GOSDEN    |  |  |  |  |  |               |  |
| APPROVED BY<br>-            |                |                            |  |  |  |  |  |               |  |
| DATE APPROVED<br>01/01/2021 |                |                            |  | D - OHC - D028 - SD - 002  |  |  |  |               |  |

# Double Pole Strain 66kV – S&C Fuse – Top view

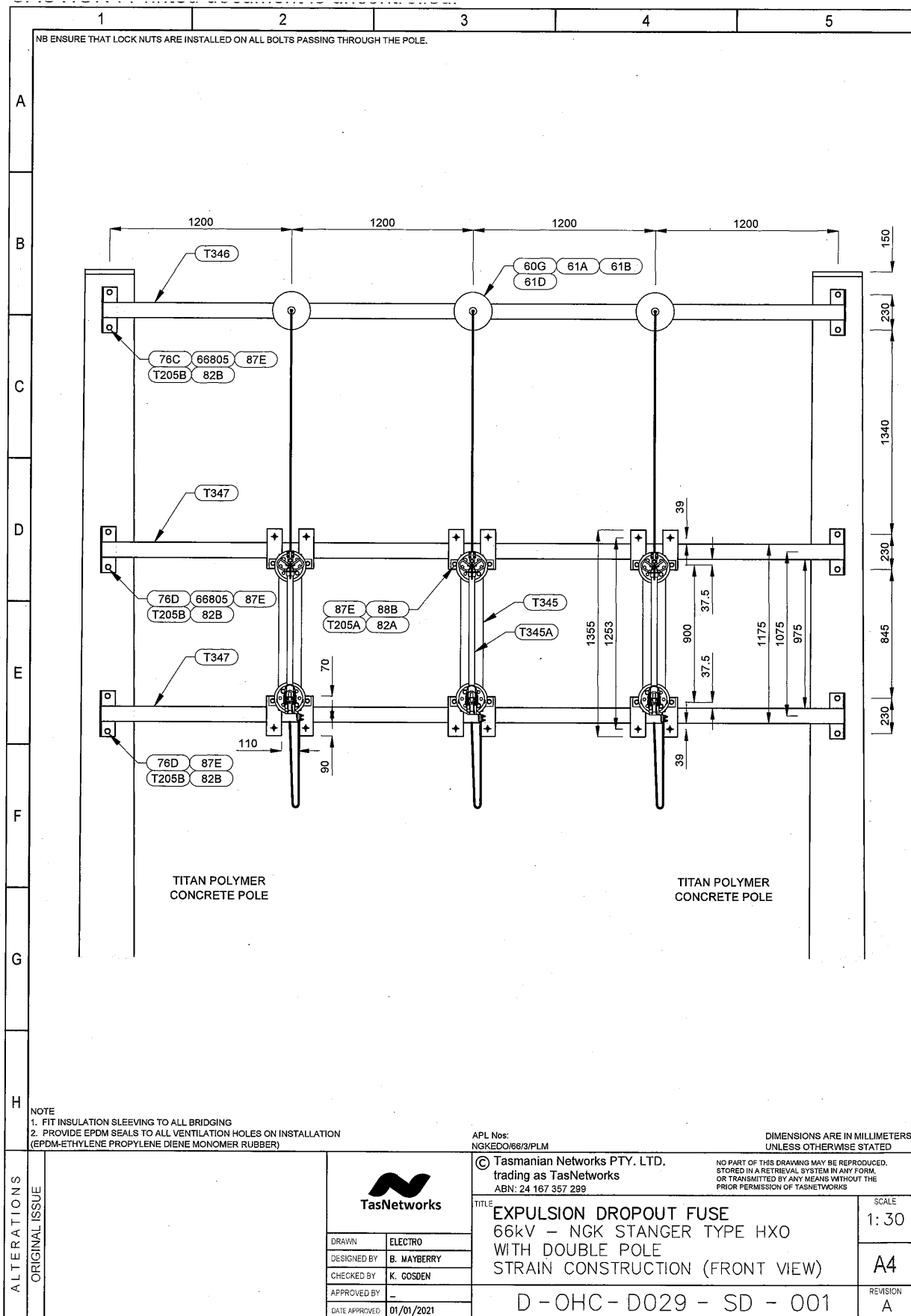




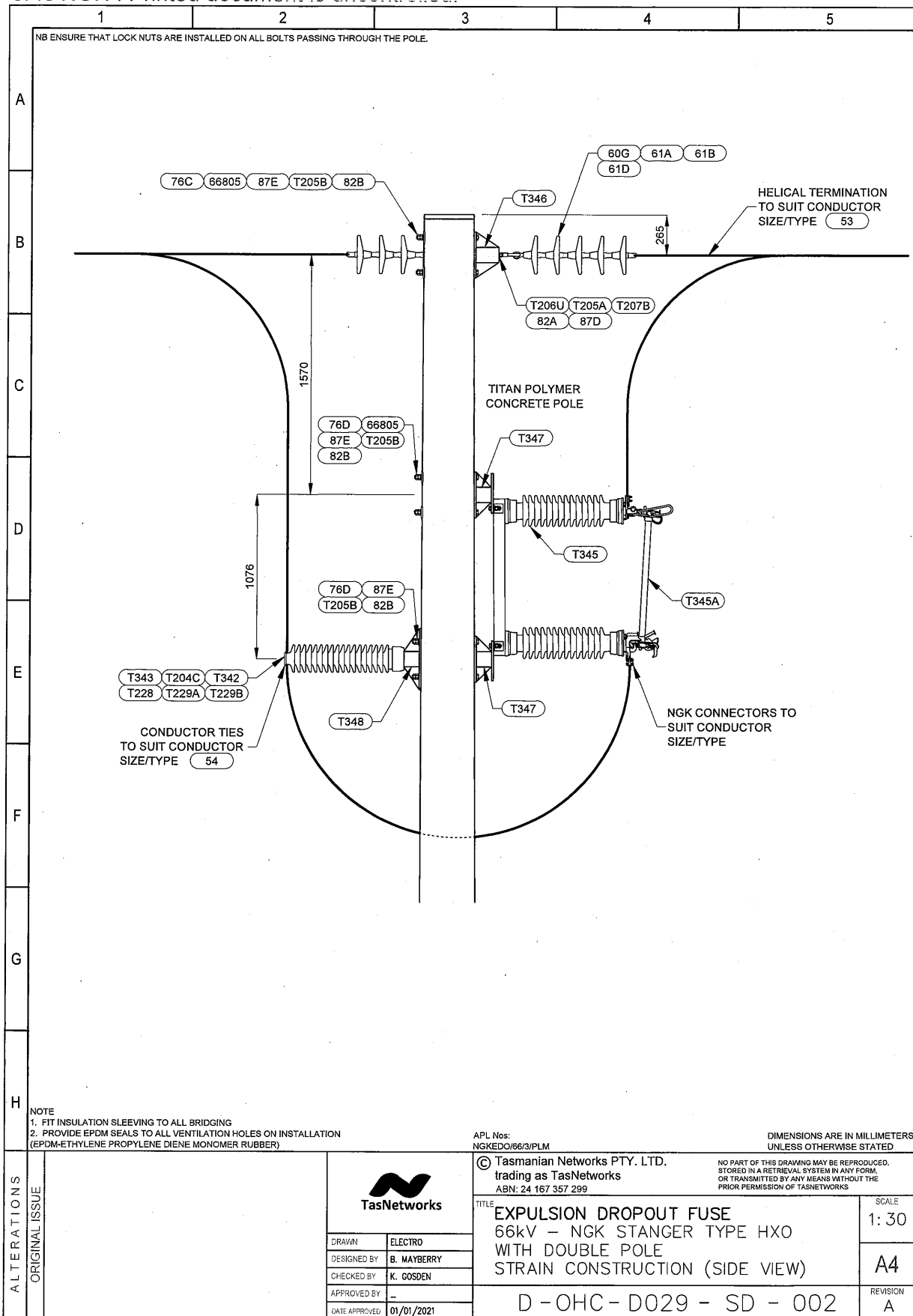
### Double Pole Strain 66kV – S&C Fuse – Material List

|  |   |   |   |            |  |                           |  |   |   |   |          |
|--|---|---|---|------------|--|---------------------------|--|---|---|---|----------|
|  |   | 1   |   | 2          |  | 3                         |  | 4 |   | 5 |          |
| A<br><br>B<br><br>C<br><br>D<br><br>E<br><br>F<br><br>G<br><br>H | SCEDO/6<br>6/3/PLM  | S   | Item Ref  | Stock Item | Stock Item Description   |                           |  |   |   |   | Quantity |
|  |   |   | T343  | NEW        | 66kV Tie Top Line Post Insulator, Stud Type (Morlynn H1167/ISS7)                                       |                           |  |   |   |   | 3        |
|  |   |   | 60G   | 321260     | Insulator Disc Porcelain 16mm 70Kn 146mm   |                           |  |   |   |   | 30       |
|  |   |   | 61A   | 322056     | Ball Clevis & Pin 16mm   |                           |  |   |   |   | 6        |
|  |   |   | 61B   | 322386     | Socket Termination 16mm  |                           |  |   |   |   | 6        |
|  |   |   | 61D   | 322090     | 'W' Clip / Kink Pin  |                           |  |   |   |   | 36       |
|  |   |   | 76C   | 32340      | Bolt Hex M20 x 400 - Thread Length 150mm   |                           |  |   |   |   | 4        |
|  |   |   | 76D   | 32342      | Bolt Hex M20 x 450 - Thread Length 150mm   |                           |  |   |   |   | 8        |
|  |   |   | 82B   | 40442      | Nut Hex M20  |                           |  |   |   |   | 24       |
|  |   |   | 87E   | 65617      | Washer NS M20  |                           |  |   |   |   | 24       |
|  |   |   | T205B   | NEW        | M20 Spring Washer - Galvanised Spring Steel DIN127B (OD: 33.5mm, ID: 20.1 - 22.1mm, Thickness: 4.0)    |                           |  |   |   |   | 12       |
|  |   |   | 66805   | 66805      | Cuned Washer 75mm x 75mm x 5.0mm Thick to Fit M20  |                           |  |   |   |   | 8        |
|  |   |   | T344  | NEW        | 66kV Expulsion Drop-Out Fuse 200A (EDO) - S&C Electric Company SMD-1A 69kV Power Fuse                  |                           |  |   |   |   | 3        |
|  |   |   | T344A   | NEW        | 66kV EDO Fuse 200A - S&C Electric Company SMD-1A 69kV Power Fuse Element - Size As Required            |                           |  |   |   |   | 3        |
|  |   |   | T346  | NEW        | Crossarm Beam 150 x 100 x 10 x 4.9m RHS, 300x100x12 Mount Plates - 66kV Twin Pole Strain Const.        |                           |  |   |   |   | 1        |
|  |   |   | T347  | NEW        | Crossarm Beam 100 x 100 x 10 x 4.9m SHS, 300x100x12 Mount Plates - 66kV Twin Pole EDO Const.           |                           |  |   |   |   | 2        |
|  |   |   | T348  | NEW        | Crossarm Beam 100 x 100 x 10 x 4.9m SHS, 400x100x12 Mount Plates - 66kV Twin Pole Stand Off Ins Const. |                           |  |   |   |   | 1        |
|  |   |   | T208B   | NEW        | GAIN BLOCK 125mm Crossarm Type   |                           |  |   |   |   | 1        |
|  |   |   | T206U   | NEW        | M16 EYE BOLT 210 - Thread Length 75mm  |                           |  |   |   |   | 3        |
|  |   |   | T205A   | NEW        | M16 Spring Washer - Galvanised Spring Steel DIN127B (OD: 27mm, ID: 16.2 - 17.0mm, Thickness: 3.5)      |                           |  |   |   |   | 15       |
|  |   |   | T207B   | NEW        | M16 EYE NUT  |                           |  |   |   |   | 3        |
|  |   |   | 82A   | 40441      | Nut Hex M16  |                           |  |   |   |   | 15       |
|  |   |   | 87D   | 65616      | Washer NS M16  |                           |  |   |   |   | 3        |
|  |   |   | 78E   | 33784      | Bolt Tower M16 x 55 - Thread Length 38mm   |                           |  |   |   |   | 12       |
|  |   |   | 88B   | 66413      | Washer Tower M16   |                           |  |   |   |   | 24       |
|  |   |   | T228  | NEW        | M24 Nut Hex (36mm across Flats, 21mm Thick)  |                           |  |   |   |   | 6        |
|  |   |   | T229A   | NEW        | M24 Washer NS (ID-26mm, OD-48mm, Thickness 4.0mm)  |                           |  |   |   |   | 3        |
|  |   |   | T342  | NEW        | M24 Lock/Half Nut - Thickness 7.0 - 9.0mm  |                           |  |   |   |   | 3        |
| T229B  | NEW   | M24 Spring Washer - Galvanised Spring Steel DIN127B (OD: 40mm, ID: 24.5 - 25.5mm, Thickness: 5.0) |   |            |  |                           |  | 3 |   |   |          |
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|  |   |   | DESIGNED BY: B. MAYBERRY  |            |  |                           |  |   | A4  |   |          |
|  |   |   | CHECKED BY: K. GOSDEN   |            |  |                           |  |   | REVISION: A   |   |          |
| APPROVED BY: -   |   |   |   |            |  | D - OHC - D028 - SD - 004 |  |   |   |   |          |
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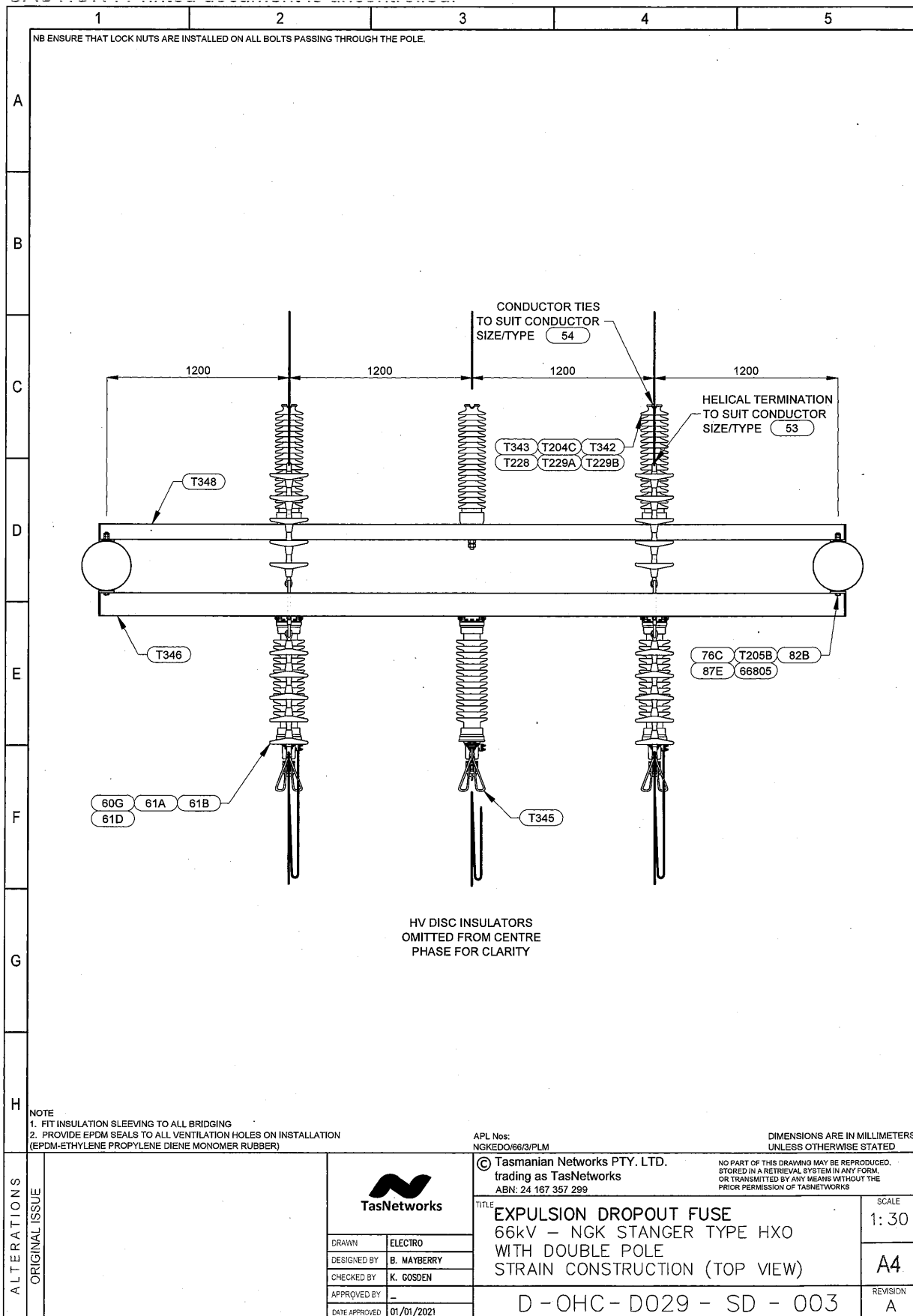
### 4.7 Double Pole Strain – 66kV with NGK Stranger Fuse – Front view



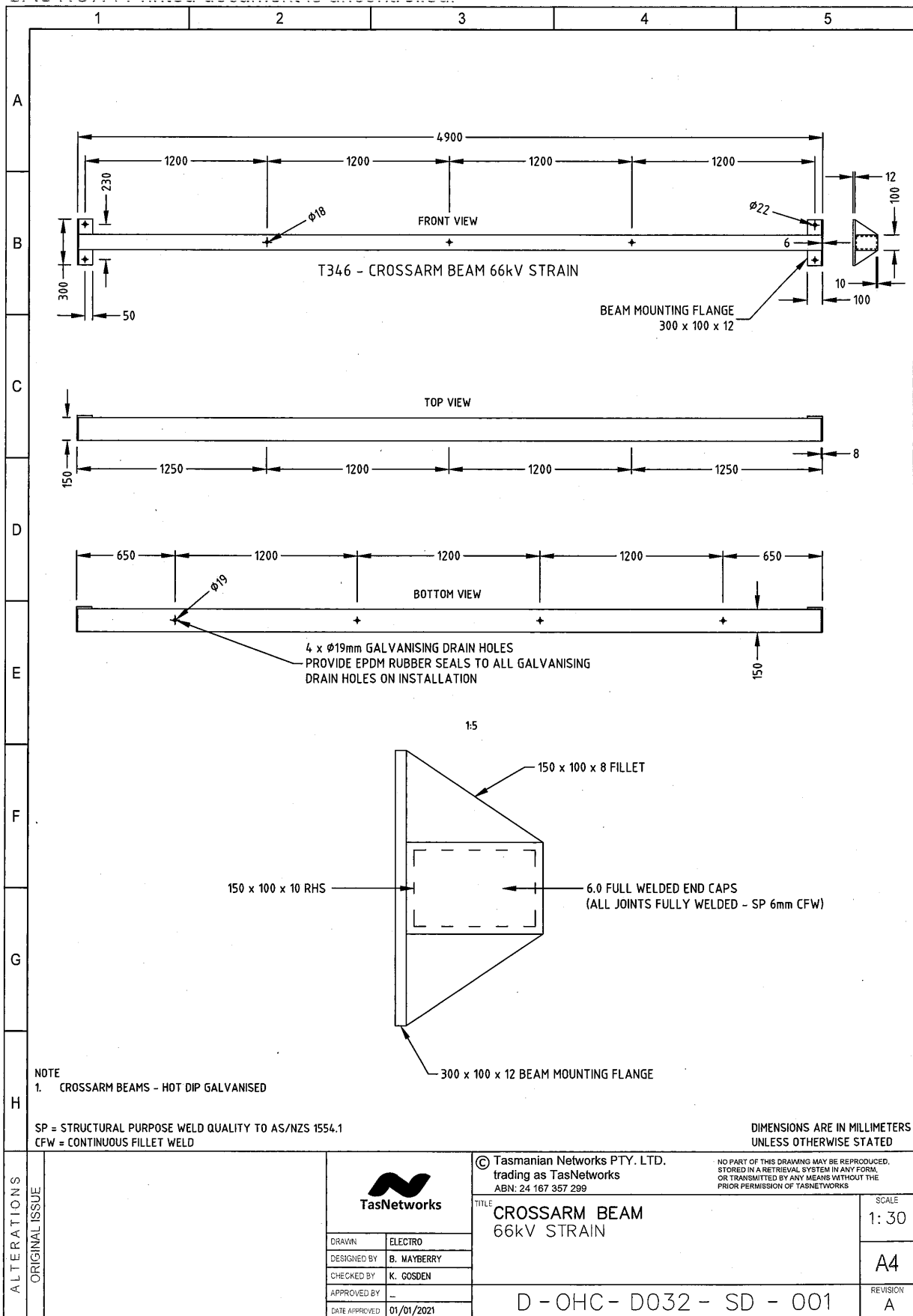
# Double Pole Strain – 66kV with NGK Dropout Fuse – Side View



# Double Pole Strain – 66kV with NGK Dropout Fuse – Top View

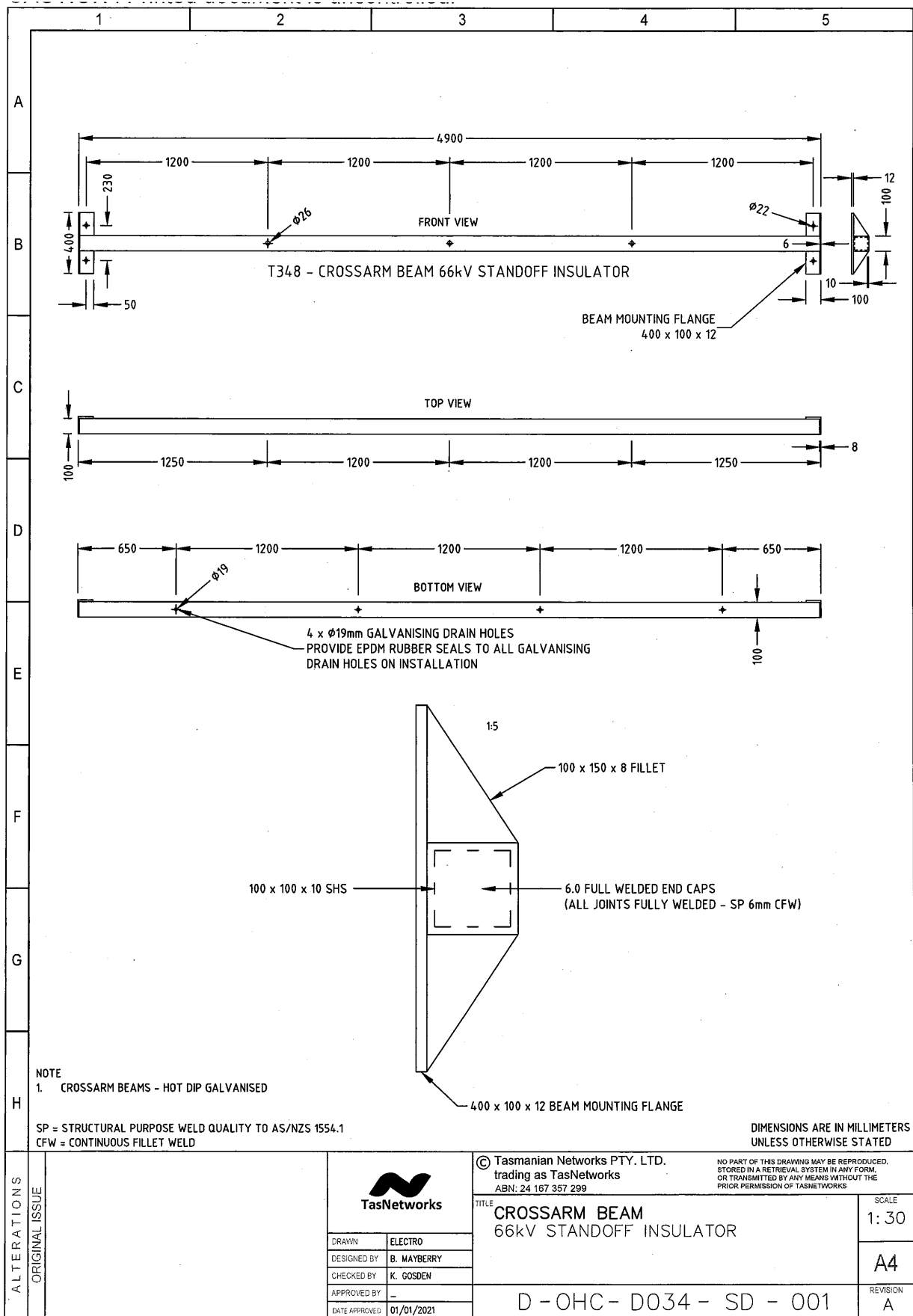


### 4.8 66kV Double Strain – Crossarm Beam Steelwork



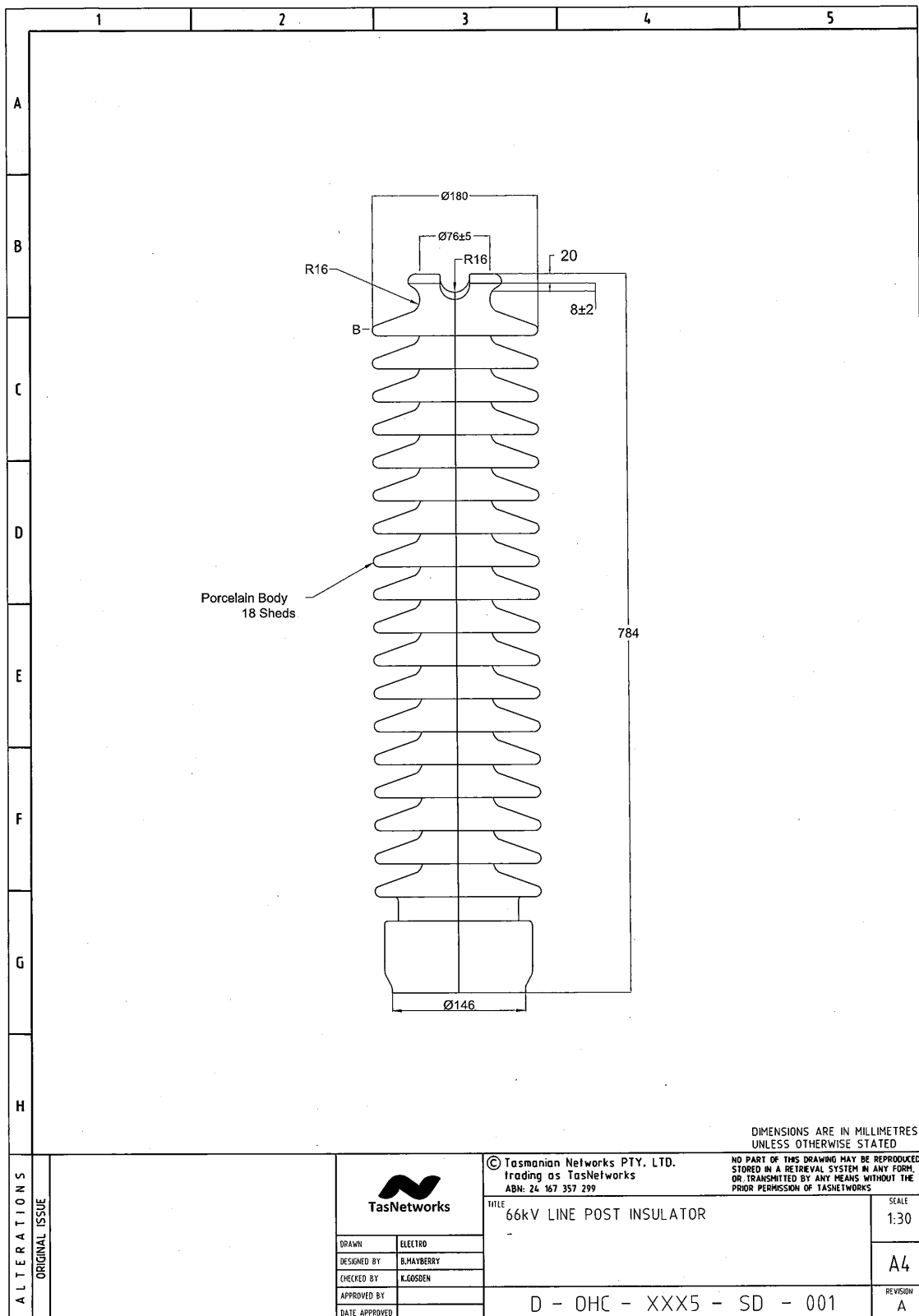


# 66kV Crossarm Beam – Standoff Insulator



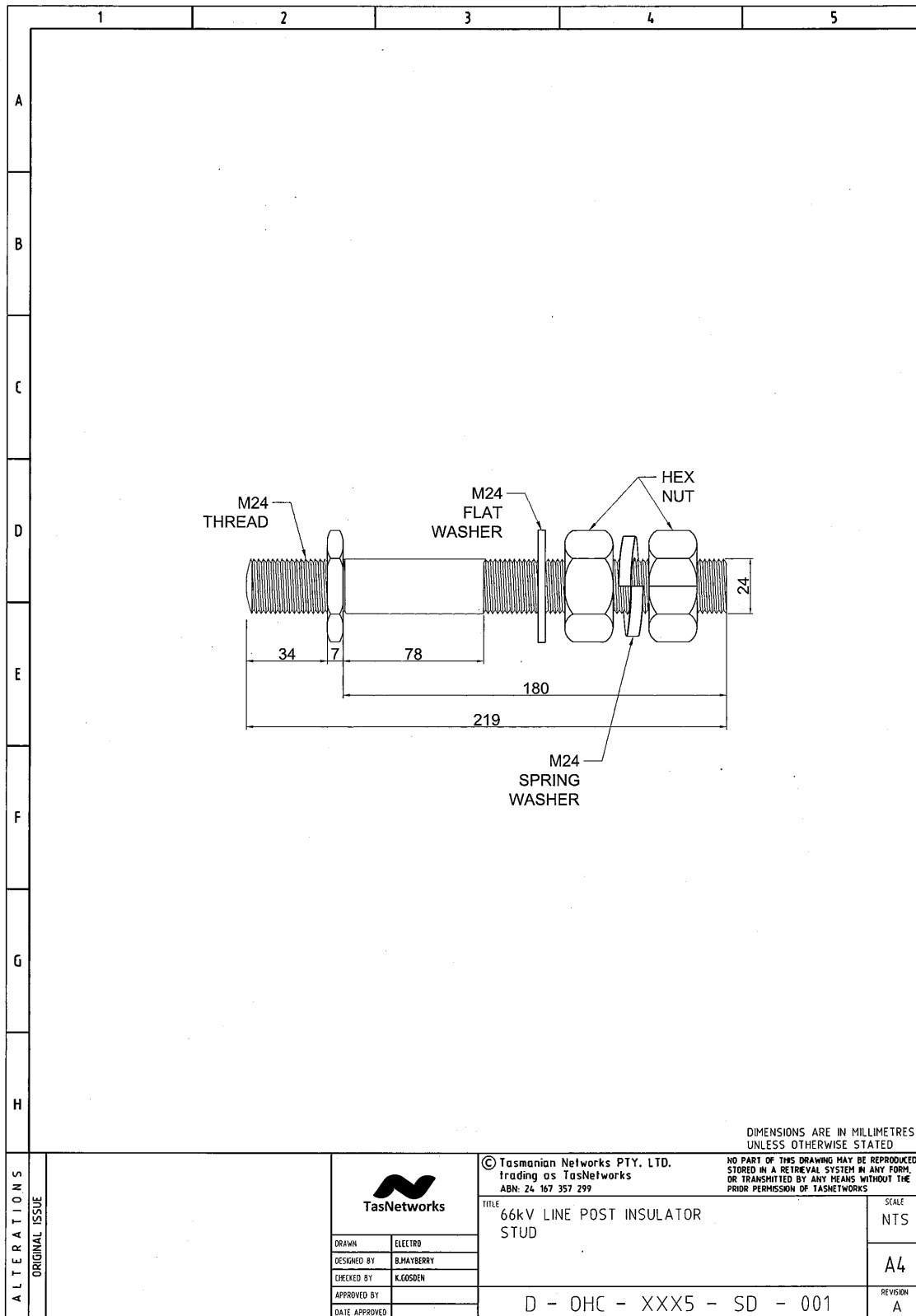
|               |                |  |  |                |             |             |            |           |             |   |               |            |                                  |  |
|---------------|----------------|--|--|----------------|-------------|-------------|------------|-----------|-------------|---|---------------|------------|----------------------------------|--|
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|               |                |  |  | A4             |             |             |            |           |             |   |               |            |                                  |  |
|               |                |  |  | REVISION<br>A  |             |             |            |           |             |   |               |            |                                  |  |
|               |                |  |  |                |             |             |            |           |             |   |               |            |                                  |  |
|               |                | <table border="1"> <tr> <td>DRAWN</td> <td>ELECTRO</td> </tr> <tr> <td>DESIGNED BY</td> <td>B. MAYBERRY</td> </tr> <tr> <td>CHECKED BY</td> <td>K. GOSDEN</td> </tr> <tr> <td>APPROVED BY</td> <td>-</td> </tr> <tr> <td>DATE APPROVED</td> <td>01/01/2021</td> </tr> </table> | DRAWN  | ELECTRO        | DESIGNED BY | B. MAYBERRY | CHECKED BY | K. GOSDEN | APPROVED BY | - | DATE APPROVED | 01/01/2021 | <p>D - OHC - D034 - SD - 001</p> |  |
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| DESIGNED BY   | B. MAYBERRY    |  |  |                |             |             |            |           |             |   |               |            |                                  |  |
| CHECKED BY    | K. GOSDEN      |  |  |                |             |             |            |           |             |   |               |            |                                  |  |
| APPROVED BY   | -              |  |  |                |             |             |            |           |             |   |               |            |                                  |  |
| DATE APPROVED | 01/01/2021     |  |  |                |             |             |            |           |             |   |               |            |                                  |  |

### 4.9 66kV Line Post Insulator

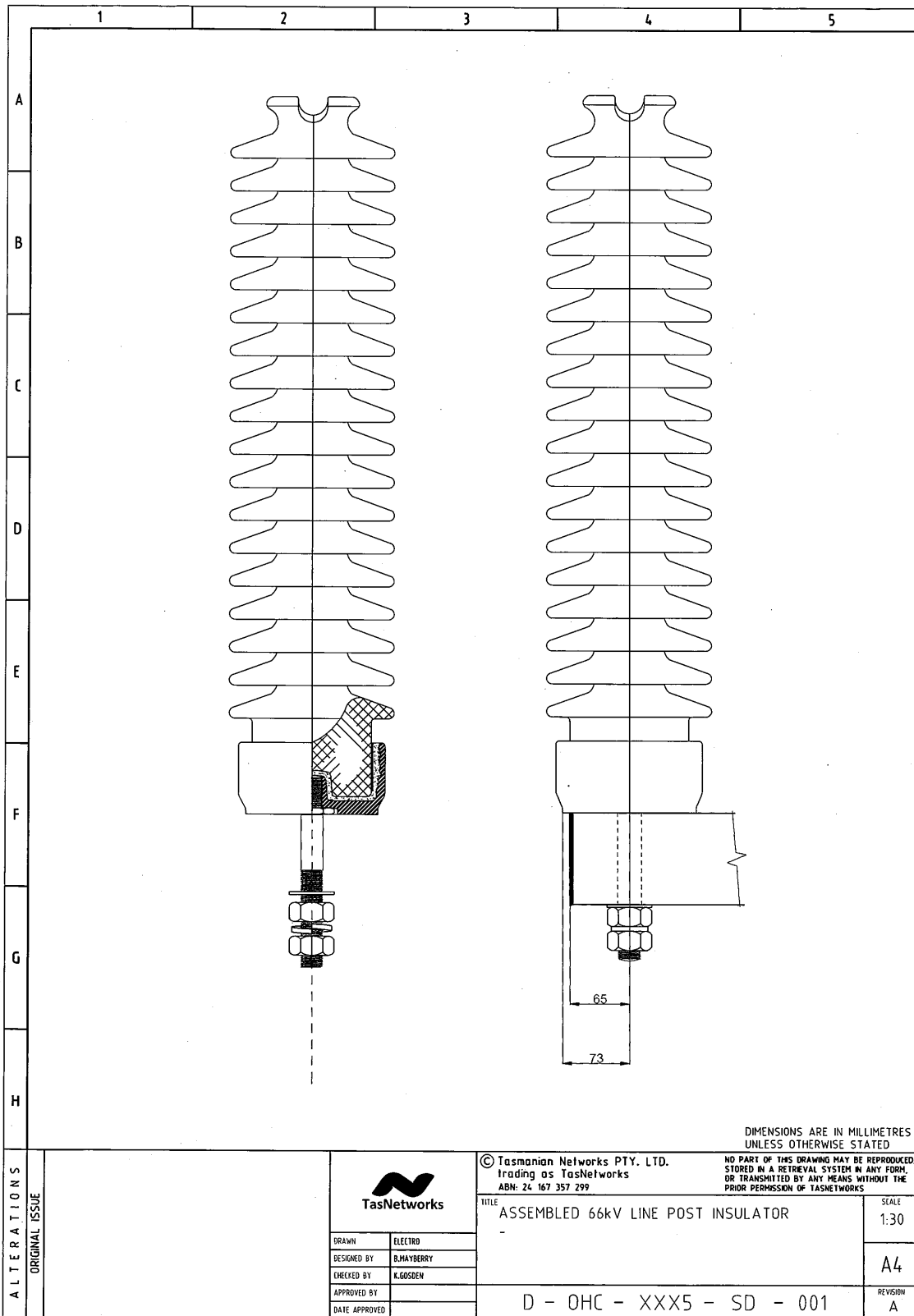




66kV Line Post Insulator Stud



Assembled 66kV Line Post Insulator



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# SECTION 5 – SWITCHES, FUSES, RECLOSERS & SECTIONALISERS




## 5 SECTION 5 – SWITCHES, FUSES, RECLOSERS & SECTIONALISERS

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| 5.8 Recloser Steelwork Detail (Obsolete) .....                  | 19 |

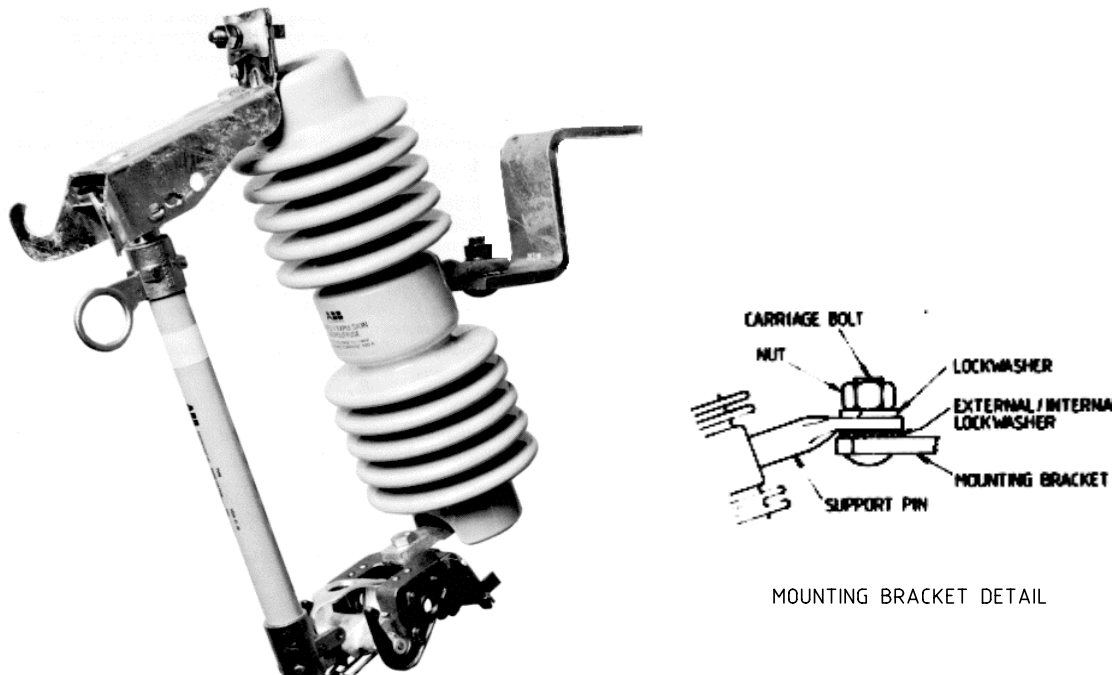

### 5.0 Morlynn EDOs (Obsolete)

|   | 1  | 2  | 3   | 4 | 5   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
|---|--|--|---|---|---|--|--|-------------------------|----------|--|----------|---------------------|----------|--------------------------|----------|-------------------|------|--------------------------|-----|--------------------------------|----|--|---|-------------------------|---|
| A   |  |  |   |   |   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
| B   |  |  |   |   |   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
| C   |  |  |   |   |   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
| D   |  |  |   |   |   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
| E   |  |  |   |   |   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
| F   |  |  |   |   |   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
| G   |  |  |   |   |   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
| H   |  |  |   |   |   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
| <p><b>- OBSOLETE</b><br/><b>- FOR REFERENCE ONLY</b></p>  |  |  |   |   |   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
| <p>FUSE DETAILS</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;"></th> <th style="width:40%;">DROPOUT EXPULSION FUSE<br/>24kV 100 AMP</th> </tr> </thead> <tbody> <tr> <td>S.I. No., COMPLETE FUSE</td> <td style="text-align:center;">23.63.20</td> </tr> <tr> <td>S.I. No., COMPLETE FUSE WITH SPARK CATCHER</td> <td style="text-align:center;">23.63.21</td> </tr> <tr> <td>S.I. No., FUSE TUBE</td> <td style="text-align:center;">23.63.73</td> </tr> <tr> <td>S.I. No. EXPENDABLE DISC</td> <td style="text-align:center;">23.63.66</td> </tr> <tr> <td>FUSE TUBE, COLOUR</td> <td style="text-align:center;">GREY</td> </tr> <tr> <td>FUSE TUBE, LENGTH 'L' mm</td> <td style="text-align:center;">500</td> </tr> <tr> <td>FUSE TUBE, ANGLE OF TILT (DEG)</td> <td style="text-align:center;">40</td> </tr> <tr> <td>FUSE, FAULT RATING AT 11kV &amp; 22kV (KA)</td> <td style="text-align:center;">8</td> </tr> <tr> <td>WITH SPARK CATCHER (KA)</td> <td style="text-align:center;">2</td> </tr> </tbody> </table> |  |  |   |   |   |  | DROPOUT EXPULSION FUSE<br>24kV 100 AMP | S.I. No., COMPLETE FUSE | 23.63.20 | S.I. No., COMPLETE FUSE WITH SPARK CATCHER | 23.63.21 | S.I. No., FUSE TUBE | 23.63.73 | S.I. No. EXPENDABLE DISC | 23.63.66 | FUSE TUBE, COLOUR | GREY | FUSE TUBE, LENGTH 'L' mm | 500 | FUSE TUBE, ANGLE OF TILT (DEG) | 40 | FUSE, FAULT RATING AT 11kV & 22kV (KA) | 8 | WITH SPARK CATCHER (KA) | 2 |
|   | DROPOUT EXPULSION FUSE<br>24kV 100 AMP   |  |   |   |   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
| S.I. No., COMPLETE FUSE   | 23.63.20   |  |   |   |   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
| S.I. No., COMPLETE FUSE WITH SPARK CATCHER  | 23.63.21   |  |   |   |   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
| S.I. No., FUSE TUBE   | 23.63.73   |  |   |   |   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
| S.I. No. EXPENDABLE DISC  | 23.63.66   |  |   |   |   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
| FUSE TUBE, COLOUR   | GREY   |  |   |   |   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
| FUSE TUBE, LENGTH 'L' mm  | 500  |  |   |   |   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
| FUSE TUBE, ANGLE OF TILT (DEG)  | 40   |  |   |   |   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
| FUSE, FAULT RATING AT 11kV & 22kV (KA)  | 8  |  |   |   |   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
| WITH SPARK CATCHER (KA)   | 2  |  |   |   |   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
| DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED   |  |  |   |   |   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
| ALTERATIONS<br>ORIGINAL ISSUE   |  |  | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299 |   | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNETWORKS |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
|   | DRAWN CS PRO-SOLUTIONS<br>DESIGNED BY ELECTRO<br>CHECKED BY HLWESTBURY<br>APPROVED BY -<br>DATE APPROVED 13/MAY/19 | TITLE<br>HIGH VOLTAGE DROP-OUT FUSE<br>MORLYNN POWER<br>OBSOLETE |   |   | SCALE<br>NTS<br>A4<br>REVISION<br>A   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |
|   |  | D - OHC - E010 - SD - 001  |   |   |   |  |  |                         |          |  |          |                     |          |                          |          |                   |      |                          |     |                                |    |  |   |                         |   |

Morlynn EDOs (Obsolete) – Notes

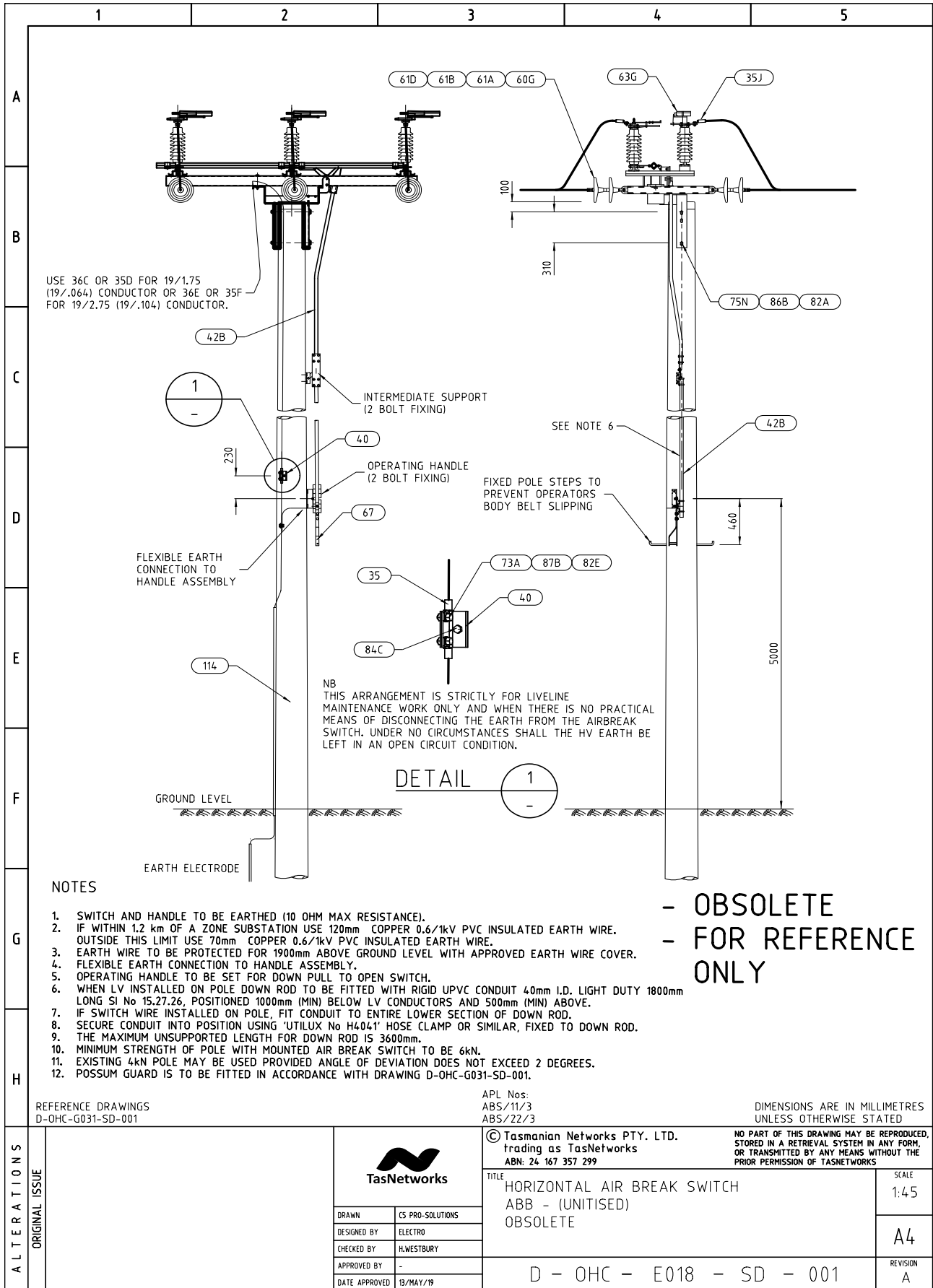
|             |   |  |   |  |   |               |
|-------------|---|--|---|--|---|---------------|
|             | 1   | 2  | 3 | 4  | 5 |               |
| A           | <p><b>DROPOUT EXPULSION FUSE</b><br/>24kV-100AMP</p>  |  |   |  |   |               |
| B           | <p><b>GENERAL</b></p> <p>THE OLD DESIGN OF DROPOUT EXPULSION FUSE, SERIES RE MANUFACTURED BY MORLYNN POWER HAS BEEN REPLACED BY THE AB CHANCE (NGK STANGER) TYPE.</p> <p>THE RE TYPE DROPOUT EXPULSION FUSE IS A DELAYED DUAL VENTING TYPE, SINGLE PHASE, SINGLE INSULATOR, CROSSARM MOUNTING, HOOK STICK OPERATED SUITABLE FOR BOTH 12kV AND 24kV APPLICATIONS.</p> <p>THE SPARKLESS FUSES AND CONVENTIONAL 'K' OR 'T' TYPE FUSE LINKS ARE AVAILABLE FOR USE IN THE FUSE CARRIER WHICH INTERRUPT AND DROPS OPEN WHEN THE FUSIBLE ELEMENT OF THE FUSE LINK RUPTURES ON EXCESS CURRENTS. "SPARKLESS" FUSE ELEMENTS ARE NOT SPARK-FREE, BUT PRODUCES FEWER SPARKS THAN THE OLDER ELEMENTS.</p>  |  |   |  |   |               |
| C           | <p><b>APPLICATION</b></p> <p>THEIR APPLICATION IS FOR THE PROTECTION OF DISTRIBUTION TRANSFORMERS AND SPUR LINES THE FUSE SWITCH DROPPING OPEN TO ISOLATE THE FAULTY UNIT OR SYSTEM SECTION UNDER FAULT CONDITIONS, AT THE SAME TIME PROVIDING A CLEAR INDICATION OF THE FUSE OPERATION, THE DUTY OF THE FUSE FITTING SHOULD BE SELECTED SO THAT ITS FAULT RATING IS NOT EXCEEDED BY THE LOCAL HV FAULT LEVEL. THE REMOVABLE CAP SCREWED TO THE TOP OF THE FUSE CARRIER IS FITTED WITH A 65mm LONG STAINLESS STEEL TUBE TO INCREASE THE FAULT RATING OF THE FUSE FROM THE STANDARD 6kA TO 8kA RATING WHICH RELATES TO 300MVA AT 22kV AND 150MVA AT 11kV THE FAULT RATING OF THE FUSE IS RESTRICTED TO 2kA, WHICH RELATES TO 75MVA AT 22kV AND 37.5MVA AT 11kV, WHEN THE DROPOUT FUSE FITTING IS FITTED WITH A SPARK CATCHER, AS THIS IS THE MAXIMUM FAULT RATING OF THE SPARK CATCHER. (OLD INSTALLATIONS ONLY)</p>   |  |   |  |   |               |
| D           | <p><b>FUSE CARRIERS</b></p> <p>THE FUSE CARRIER GREY IN COLOUR CONSISTS OF A FIBREGLASS RE-INFORCED TUBE WITH A VULCANISED FIBRE LINING, WITH CONTACTS AT EACH END. THE TOP CONTACT CONSIST OF AN ELECTRO-TINNED BRASS CASTING PRESSED ON TO THE TUBE. THIS CASTING IS PROVIDED WITH CONTACT EXTENSIONS TO ENGAGE THE CONTACT HORNS, A HOOK STICK PULLING EYE AND SCREWED CAP, FITTED WITH A STAINLESS STEEL TUBE, FOR CLAMPING THE TERMINAL OF THE FUSE LINK. THE TOP END OF THE CASTING IS HOLLOW TO ALLOW THE FUSE LINK TO PASS THROUGH THE ASSEMBLY AND IS THREADED AT THE TOP EXTERNALLY TO ALLOW THE TOP CAP TO BE SCREWED ON.</p> <p>THE SCREWED TOP CAP HAS A SAFETY DISC TO ALLOW THE TUBE TO DOUBLE VENT AT HIGH FAULT LEVELS. WHEN THIS HAPPENS THE DISC MUST BE REPLACED. WASHERS MUST NEVER BE SUBSTITUTED FOR THE STANDARD DISC.</p> <p>THE FUSE CARRIER WILL FIT THE STANDARD AND HEAVY DUTY FUSE FITTINGS AND REPLACES BOTH THE STANDARD DUTY FUSE CARRIER (S.I. No 23.63.75) AND THE HEAVY DUTY FUSE CARRIER (S.I. No 23.63.77)</p> <p>THE EXISTING EXTRA HEAVY DUTY FUSE CARRIER (S.I. No 23.63.79) WILL BE HELD ON STOCK FOR USE IN EXISTING EXTRA HEAVY DUTY FUSE FITTINGS.</p> <p>THE OLD FUSE CARRIERS WITH PVC OUTER SHEATH ARE SUBSTANDARD COMPONENTS AND MUST BE REPLACED.</p> |  |   |  |   |               |
| E           | <p><b>FUSE LINKS</b></p> <p>THE CURRENT RATING OF FUSE LINKS APPLICABLE TO 22kV AND 11kV DISTRIBUTION TRANSFORMERS IS TABULATED IN THE APPROPRIATE OPERATING MANUAL AND THE OPERATIONAL MANUAL. THE FUSE LINK HAS THE CURRENT RATING AND TYPE STAMPED ON THE END TERMINAL.</p> <p>SPARKLESS FUSES HAVING CLASS 'K' CHARACTERISTICS ARE AVAILABLE IN SIZES UP TO 16 AMP AND ARE NORMALLY USED FOR PROTECTION OF DISTRIBUTION TRANSFORMERS AND THE SMALLER SPUR LINES.</p>  |  |   |  |   |               |
| F           | <p><b>- OBSOLETE</b><br/><b>- FOR REFERENCE ONLY</b></p>  |  |   |  |   |               |
| G           |   |  |   |  |   |               |
| H           |   |  |   |  |   |               |
| ALTERATIONS | ORIGINAL ISSUE  |                                 |   | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299  |   |               |
|             |   |  |   | NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS |   |               |
|             |   |  |   | TITLE<br>HIGH VOLTAGE DROP-OUT FUSE<br>MORLYNN NOTES<br>OBSOLETE   |   | SCALE<br>NTS  |
|             |   | DRAWN CS PRO-SOLUTIONS<br>DESIGNED BY ELECTRO<br>CHECKED BY H.WESTBURY<br>APPROVED BY -<br>DATE APPROVED 13/MAY/19 |   | D - OHC - E010 - SD - 002  |   | REVISION<br>A |
|             |   |  |   |  |   |               |

### 5.1 ABB EDOs (Obsolete)


|                              | 1  | 2 | 3  | 4  | 5   |               |  |                         |          |                   |                  |               |      |               |         |                              |     |                        |       |                   |       |
|------------------------------|--|---|--|----|---|---------------|--|-------------------------|----------|-------------------|------------------|---------------|------|---------------|---------|------------------------------|-----|------------------------|-------|-------------------|-------|
| A                            |    |   |  |    |   |               |  |                         |          |                   |                  |               |      |               |         |                              |     |                        |       |                   |       |
| B                            |  |   |  |    |   |               |  |                         |          |                   |                  |               |      |               |         |                              |     |                        |       |                   |       |
| C                            |  |   |  |    |   |               |  |                         |          |                   |                  |               |      |               |         |                              |     |                        |       |                   |       |
| D                            |  |   |  |    |   |               |  |                         |          |                   |                  |               |      |               |         |                              |     |                        |       |                   |       |
| E                            | TYPICAL DROPOUT FUSE SERIES 'V'<br><br>- OBSOLETE<br>- FOR REFERENCE ONLY  |   |  |    |   |               |  |                         |          |                   |                  |               |      |               |         |                              |     |                        |       |                   |       |
| F                            | FUSE DETAILS   |   |  |    |   |               |  |                         |          |                   |                  |               |      |               |         |                              |     |                        |       |                   |       |
| G                            | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 50%; text-align: center;">DROPOUT EXPULSION FUSE<br/>24kV 100 AMP</th> </tr> </thead> <tbody> <tr> <td>S.I. No., COMPLETE FUSE</td> <td style="text-align: center;">23.63.22</td> </tr> <tr> <td>S.I. No.FUSE TUBE</td> <td style="text-align: center;">( 30C ) 23.55.01</td> </tr> <tr> <td>RATED VOLTAGE</td> <td style="text-align: center;">24kV</td> </tr> <tr> <td>RATED CURRENT</td> <td style="text-align: center;">100 AMP</td> </tr> <tr> <td>RATED BREKING CAPACITY (SYM)</td> <td style="text-align: center;">8kA</td> </tr> <tr> <td>BASIC INSULATION LEVEL</td> <td style="text-align: center;">150kV</td> </tr> <tr> <td>CREEPAGE TO EARTH</td> <td style="text-align: center;">450mm</td> </tr> </tbody> </table> |   |  |    |   |               | DROPOUT EXPULSION FUSE<br>24kV 100 AMP | S.I. No., COMPLETE FUSE | 23.63.22 | S.I. No.FUSE TUBE | ( 30C ) 23.55.01 | RATED VOLTAGE | 24kV | RATED CURRENT | 100 AMP | RATED BREKING CAPACITY (SYM) | 8kA | BASIC INSULATION LEVEL | 150kV | CREEPAGE TO EARTH | 450mm |
|                              | DROPOUT EXPULSION FUSE<br>24kV 100 AMP   |   |  |    |   |               |  |                         |          |                   |                  |               |      |               |         |                              |     |                        |       |                   |       |
| S.I. No., COMPLETE FUSE      | 23.63.22   |   |  |    |   |               |  |                         |          |                   |                  |               |      |               |         |                              |     |                        |       |                   |       |
| S.I. No.FUSE TUBE            | ( 30C ) 23.55.01   |   |  |    |   |               |  |                         |          |                   |                  |               |      |               |         |                              |     |                        |       |                   |       |
| RATED VOLTAGE                | 24kV   |   |  |    |   |               |  |                         |          |                   |                  |               |      |               |         |                              |     |                        |       |                   |       |
| RATED CURRENT                | 100 AMP  |   |  |    |   |               |  |                         |          |                   |                  |               |      |               |         |                              |     |                        |       |                   |       |
| RATED BREKING CAPACITY (SYM) | 8kA  |   |  |    |   |               |  |                         |          |                   |                  |               |      |               |         |                              |     |                        |       |                   |       |
| BASIC INSULATION LEVEL       | 150kV  |   |  |    |   |               |  |                         |          |                   |                  |               |      |               |         |                              |     |                        |       |                   |       |
| CREEPAGE TO EARTH            | 450mm  |   |  |    |   |               |  |                         |          |                   |                  |               |      |               |         |                              |     |                        |       |                   |       |
| H                            | DIMENSIONS ARE IN MILLIMETRES<br>UNLESS OTHERWISE STATED   |   |  |    |   |               |  |                         |          |                   |                  |               |      |               |         |                              |     |                        |       |                   |       |
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| ORIGINAL ISSUE               |  |   | TITLE<br>HIGH VOLTAGE DROP-OUT FUSE<br>ABB<br>OBSOLETE   |    | SCALE<br>NTS  |               |  |                         |          |                   |                  |               |      |               |         |                              |     |                        |       |                   |       |
|                              |  |   | DRAWN CS PRO-SOLUTIONS<br>DESIGNED BY ELECTRO<br>CHECKED BY H.WESTBURY<br>APPROVED BY<br>DATE APPROVED 13/MAY/19 | A4 |   |               |  |                         |          |                   |                  |               |      |               |         |                              |     |                        |       |                   |       |
|                              |  |   | D - OHC - E011 - SD - 001  |    |   | REVISION<br>A |  |                         |          |                   |                  |               |      |               |         |                              |     |                        |       |                   |       |
|                              |  |   |  |    |   |               |  |                         |          |                   |                  |               |      |               |         |                              |     |                        |       |                   |       |



### 5.2 Horizontal ABS – ABB (Obsolete)

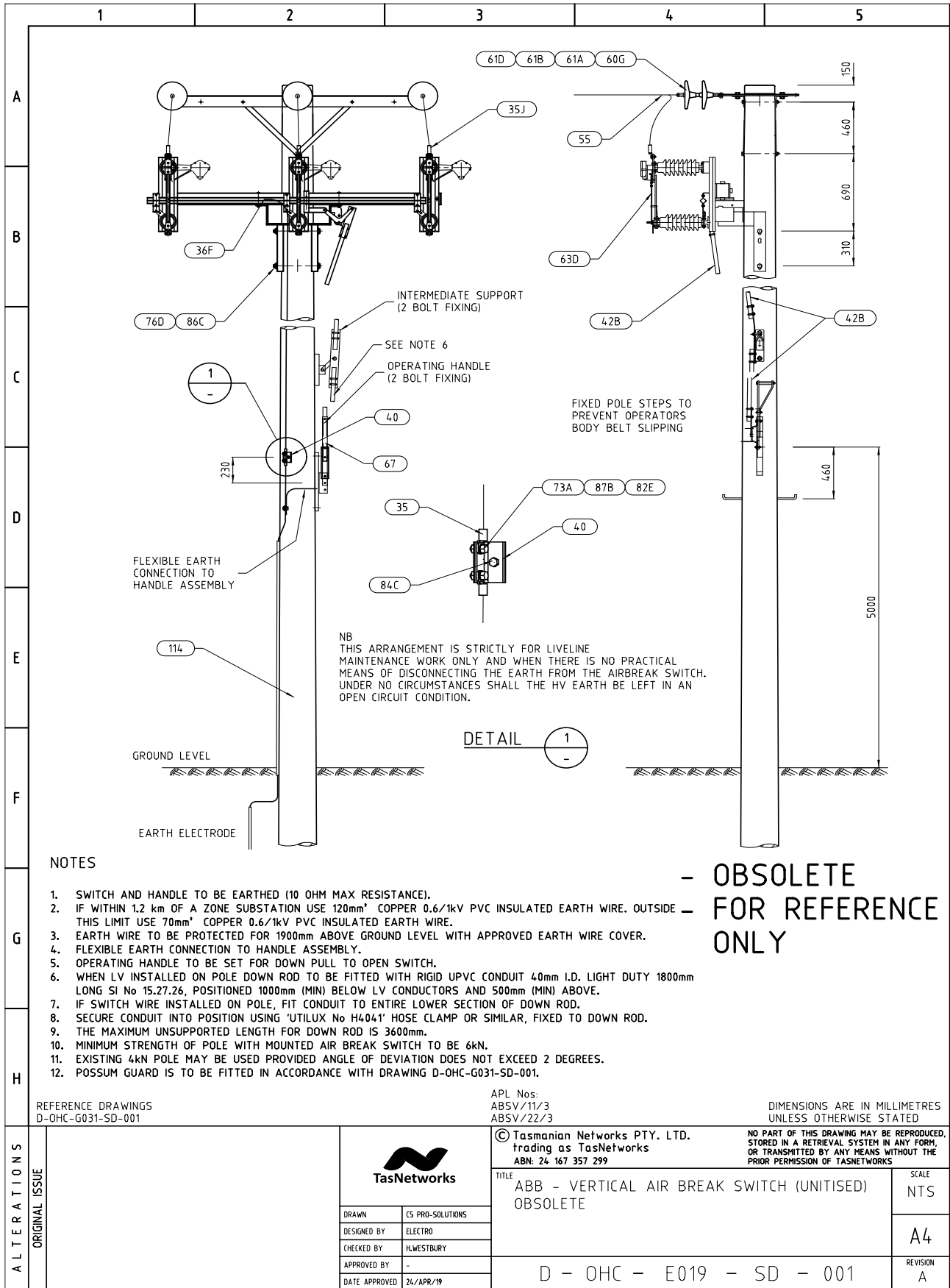


Horizontal ABS – ABB (Obsolete) – Materials List


|             |                | 1   | 2                 | 3               | 4   | 5   |   |   |
|-------------|----------------|---|-------------------|-----------------|---|---|---|---|
| A           |                | <b>Unit_Assembly</b>  | <b>Store Type</b> | <b>Item Ref</b> | <b>Stock Item</b>   | <b>Description</b>                              | <b>Quantity</b>   |   |
|             |                | ABS/11/3  | S                 | 75N             | 032288  | Bolt Hex M16 X 350                              | 2   |   |
|             |                | ABS/11/3  | S                 | 86B             | 065158  | Washer Els 16                                   | 2   |   |
|             |                | ABS/11/3  | S                 | 82A             | 40441   | Nut Hex M16                                     | 2   |   |
|             |                | ABS/11/3  | S                 |                 | 152726  | Conduit Rigid 40mm grey                         | 1   |   |
|             |                | ABS/11/3  | S                 | 63G             | 235705  | Sw itch Air Break ABB horz unitised, arc device | 1   |   |
|             |                | ABS/11/3  | S                 | 35J             | 152491  | Lug Crimp Bimetal 150mm <sup>2</sup> M12        | 6   |   |
|             |                | ABS/11/3  | S                 | 23C             | 242847  | Clamp Hose 35 to 54mm                           | 2   |   |
|             |                | ABS/11/3  | S                 | 42B             | 244207  | Dow n Rod 25mm NB Pipe 6.5m                     | 1   |   |
|             |                | ABS/11/3  | S                 | 60G             | 321260  | Insulator_Disc                                  | 12  |   |
|             |                | ABS/11/3  | S                 | 61A             | 322056  | Ball Clevis & Pin                               | 6   |   |
|             | B              |   | ABS/11/3          | S               | 61D   | 322090  | Kink Pin  | 6 |
|             |                | ABS/11/3  | S                 | 61B             | 322386  | Socket Termination                              | 6   |   |
|             |                | ABS/11/3  | S                 | 40              | 323372  | Earthing Bracket                                | 1   |   |
|             |                | ABS/11/3  | S                 | 73A             | 032177  | Bolt Hex M10 X 25                               | 2   |   |
|             |                | ABS/11/3  | S                 | 87B             | 065614  | Washer M10 NS                                   | 4   |   |
|             |                | ABS/11/3  | S                 | 82E             | 040439  | Nut Hex M10                                     | 2   |   |
|             |                | ABS/11/3  | S                 | 84C             | 050228  | Coach Screw M10 x 80                            | 1   |   |
|             |                | ABS/11/3  | S                 | 35              | 1413xx  | Cu Crimp Lug                                    | 2   |   |
|             |                |   |                   |                 |   |   |   |   |
|             |                | ABS/22/3  | S                 | 75N             | 032288  | Bolt Hex M16 X 350                              | 2   |   |
|             |                | ABS/22/3  | S                 | 86B             | 065158  | Washer Els 16                                   | 2   |   |
| C           |                |   | ABS/22/3          | S               | 82A   | 40441   | Nut Hex M16   | 2 |
|             |                | ABS/22/3  | S                 |                 | 152726  | Conduit Rigid 40mm grey                         | 1   |   |
|             |                | ABS/22/3  | S                 | 63G             | 235705  | Sw itch Air Break ABB horz unitised, arc device | 1   |   |
|             |                | ABS/22/3  | S                 | 35J             | 152491  | Lug Crimp Bimetal 150mm <sup>2</sup> M12        | 6   |   |
|             |                | ABS/22/3  | S                 | 23C             | 242847  | Clamp Hose 35 to 54mm                           | 2   |   |
|             |                | ABS/22/3  | S                 | 42B             | 244207  | Dow n Rod 25mm NB Pipe 6.5m                     | 1   |   |
|             |                | ABS/22/3  | S                 | 60G             | 321260  | Insulator_Disc                                  | 12  |   |
|             |                | ABS/22/3  | S                 | 61A             | 322056  | Ball Clevis & Pin                               | 6   |   |
|             |                | ABS/22/3  | S                 | 61D             | 322090  | Kink Pin  | 6   |   |
|             |                | ABS/22/3  | S                 | 61B             | 322386  | Socket Termination                              | 6   |   |
|             |                | ABS/22/3  | S                 | 40              | 323372  | Earthing Bracket                                | 1   |   |
|             | D              |   | ABS/22/3          | S               | 73A   | 032177  | Bolt Hex M10 X 25   | 2 |
|             |                | ABS/22/3  | S                 | 87B             | 065614  | Washer M10 NS                                   | 4   |   |
|             |                | ABS/22/3  | S                 | 82E             | 040439  | Nut Hex M10                                     | 2   |   |
|             |                | ABS/22/3  | S                 | 84C             | 050228  | Coach Screw M10 x 80                            | 1   |   |
|             |                | ABS/22/3  | S                 | 35              | 1413xx  | Cu Crimp Lug                                    | 2   |   |
|             |                |   |                   |                 |   |   |   |   |
|             |                | ABS/22/3  | S                 | 75N             | 032288  | Bolt Hex M16 X 350                              | 2   |   |
|             |                | ABS/22/3  | S                 | 86B             | 065158  | Washer Els 16                                   | 2   |   |
|             |                | ABS/22/3  | S                 | 82A             | 40441   | Nut Hex M16                                     | 2   |   |
|             |                | ABS/22/3  | S                 |                 | 152726  | Conduit Rigid 40mm grey                         | 1   |   |
|             |                | ABS/22/3  | S                 | 63G             | 235705  | Sw itch Air Break ABB horz unitised, arc device | 1   |   |
|             |                | ABS/22/3  | S                 | 35J             | 152491  | Lug Crimp Bimetal 150mm <sup>2</sup> M12        | 6   |   |
| E           |                | ABS/22/3  | S                 | 23C             | 242847  | Clamp Hose 35 to 54mm                           | 2   |   |
|             |                | ABS/22/3  | S                 | 42B             | 244207  | Dow n Rod 25mm NB Pipe 6.5m                     | 1   |   |
|             |                | ABS/22/3  | S                 | 60G             | 321260  | Insulator_Disc                                  | 12  |   |
|             |                | ABS/22/3  | S                 | 61A             | 322056  | Ball Clevis & Pin                               | 6   |   |
|             |                | ABS/22/3  | S                 | 61D             | 322090  | Kink Pin  | 6   |   |
|             |                | ABS/22/3  | S                 | 61B             | 322386  | Socket Termination                              | 6   |   |
|             |                | ABS/22/3  | S                 | 40              | 323372  | Earthing Bracket                                | 1   |   |
|             |                | ABS/22/3  | S                 | 73A             | 032177  | Bolt Hex M10 X 25                               | 2   |   |
|             |                | ABS/22/3  | S                 | 87B             | 065614  | Washer M10 NS                                   | 4   |   |
|             |                | ABS/22/3  | S                 | 82E             | 040439  | Nut Hex M10                                     | 2   |   |
|             |                | ABS/22/3  | S                 | 84C             | 050228  | Coach Screw M10 x 80                            | 1   |   |
|             |                | ABS/22/3  | S                 | 35              | 1413xx  | Cu Crimp Lug                                    | 2   |   |
| F           |                |   |                   |                 |   |   |   |   |
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|             |                | TITLE<br>HORIZONTAL AIR BREAK SWITCH<br>ABB - (UNITISED)<br>OBSOLETE                |                   |                 |   |   | SCALE<br>NTS  |   |
|             |                | DRAWN CS PRO-SOLUTIONS  |                   |                 |   |   | A4  |   |
|             |                | DESIGNED BY ELECTRO   |                   |                 |   |   |   |   |
|             |                | CHECKED BY H.WESTBURY   |                   |                 |   |   |   |   |
|             |                | APPROVED BY -   |                   |                 |   |   |   |   |
|             |                | DATE APPROVED 13/MAY/19   |                   |                 |   |   | REVISION<br>A   |   |
|             |                | D - OHC - E018 - SD - 002   |                   |                 |   |   |   |   |

- OBSOLETE  
- FOR REFERENCE ONLY

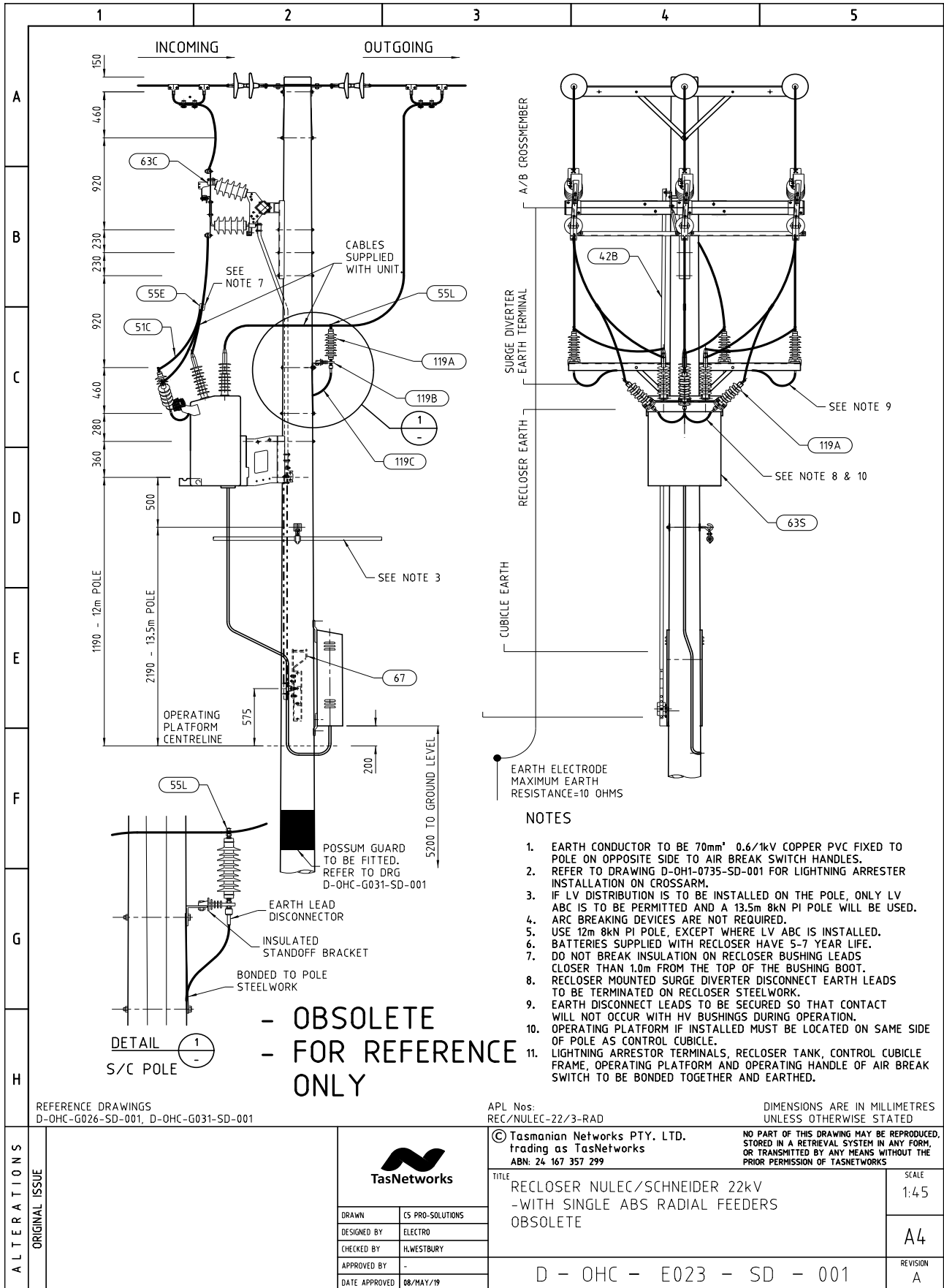
### 5.3 Vertical ABS – ABB (Obsolete)




Vertical ABS – ABB (Obsolete) – Materials List

|             |  | 1   | 2                 | 3   | 4                 | 5   |                    |   |
|-------------|--|---|-------------------|---|-------------------|---|--------------------|---|
| A           |  | <b>Unit Assembly</b>  | <b>Store Type</b> | <b>Item Ref</b>   | <b>Stock Item</b> | <b>Description</b>  | <b>Quantity</b>    |   |
|             |  | ABSV/11/3   | S                 | 76B   | 032338            | Bolt Hex M20 X 350  | 2                  |   |
|             |  | ABSV/11/3   | S                 | 86C   | 065159            | Washer Els 20   | 2                  |   |
|             |  | ABSV/11/3   | S                 | 82B   | 040442            | Nut Hex M20   | 2                  |   |
|             |  | ABSV/11/3   | S                 | 35J   | 152491            | Lug Crimp Bimetal 150mm <sup>2</sup> M12  | 3                  |   |
| B           |  | ABSV/11/3   | S                 | 63D   | 235706            | Switch Air Break ABB vert unitised, arc device  | 1                  |   |
|             |  | ABSV/11/3   | S                 | 42B   | 244207            | Down Rod 25mm NB Pipe 6.5m  | 1                  |   |
|             |  | ABSV/11/3   | S                 | 40  | 323372            | Earthing Bracket  | 1                  |   |
|             |  | ABSV/11/3   | S                 | 73A   | 032177            | Bolt Hex M10 X 25   | 2                  |   |
|             |  | ABSV/11/3   | S                 | 87B   | 065614            | Washer M10 NS   | 4                  |   |
|             |  | ABSV/11/3   | S                 | 82E   | 040439            | Nut Hex M10   | 2                  |   |
|             |  | ABSV/11/3   | S                 | 84C   | 050228            | Coach Screw M10 x 80  | 1                  |   |
|             |  | ABSV/11/3   | S                 | 35  | 1413xx            | Cu Crimp Lug  | 2                  |   |
|             | C  |   | ABSV/22/3         | S   | 76B               | 032338  | Bolt Hex M20 X 350 | 2 |
|             |  |   | ABSV/22/3         | S   | 86C               | 065159  | Washer Els 20      | 2 |
|             |  | ABSV/22/3   | S                 | 82B   | 040442            | Nut Hex M20   | 2                  |   |
|             |  | ABSV/22/3   | S                 | 35J   | 152491            | Lug Crimp Bimetal 150mm <sup>2</sup> M12  | 3                  |   |
|             |  | ABSV/22/3   | S                 | 63D   | 235706            | Switch Air Break ABB vert unitised, arc device  | 1                  |   |
|             |  | ABSV/22/3   | S                 | 42B   | 244207            | Down Rod 25mm NB Pipe 6.5m  | 1                  |   |
|             |  | ABSV/22/3   | S                 | 40  | 323372            | Earthing Bracket  | 1                  |   |
|             |  | ABSV/22/3   | S                 | 73A   | 032177            | Bolt Hex M10 X 25   | 2                  |   |
| D           |  | ABSV/22/3   | S                 | 87B   | 065614            | Washer M10 NS   | 4                  |   |
|             |  | ABSV/22/3   | S                 | 82E   | 040439            | Nut Hex M10   | 2                  |   |
|             |  | ABSV/22/3   | S                 | 84C   | 050228            | Coach Screw M10 x 80  | 1                  |   |
|             |  | ABSV/22/3   | S                 | 35  | 1413xx            | Cu Crimp Lug  | 2                  |   |
|             | <p>- OBSOLETE<br/>- FOR REFERENCE ONLY</p> |   |                   |   |                   |   |                    |   |
| E           |  |   |                   |   |                   |   |                    |   |
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| F           |  |   |                   |   |                   |   |                    |   |
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| G           |  |   |                   |   |                   |   |                    |   |
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|             |  | DRAWN   | C5 PRO-SOLUTIONS  | TITLE   |                   | SCALE   |                    |   |
|             |  | DESIGNED BY   | ELECTRO           | VERTICAL AIR BREAK SWITCH<br>ABB - (UNITISED)<br>OBSOLETE                       |                   | NTS   |                    |   |
|             |  | CHECKED BY  | H.WESTBURY        | D - OHC - E019 - SD - 002   |                   | A4  |                    |   |
| APPROVED BY | -  | DATE APPROVED   |                   | REVISION  |                   |   |                    |   |
|             |  | 13/MAY/19   |                   | A   |                   |   |                    |   |

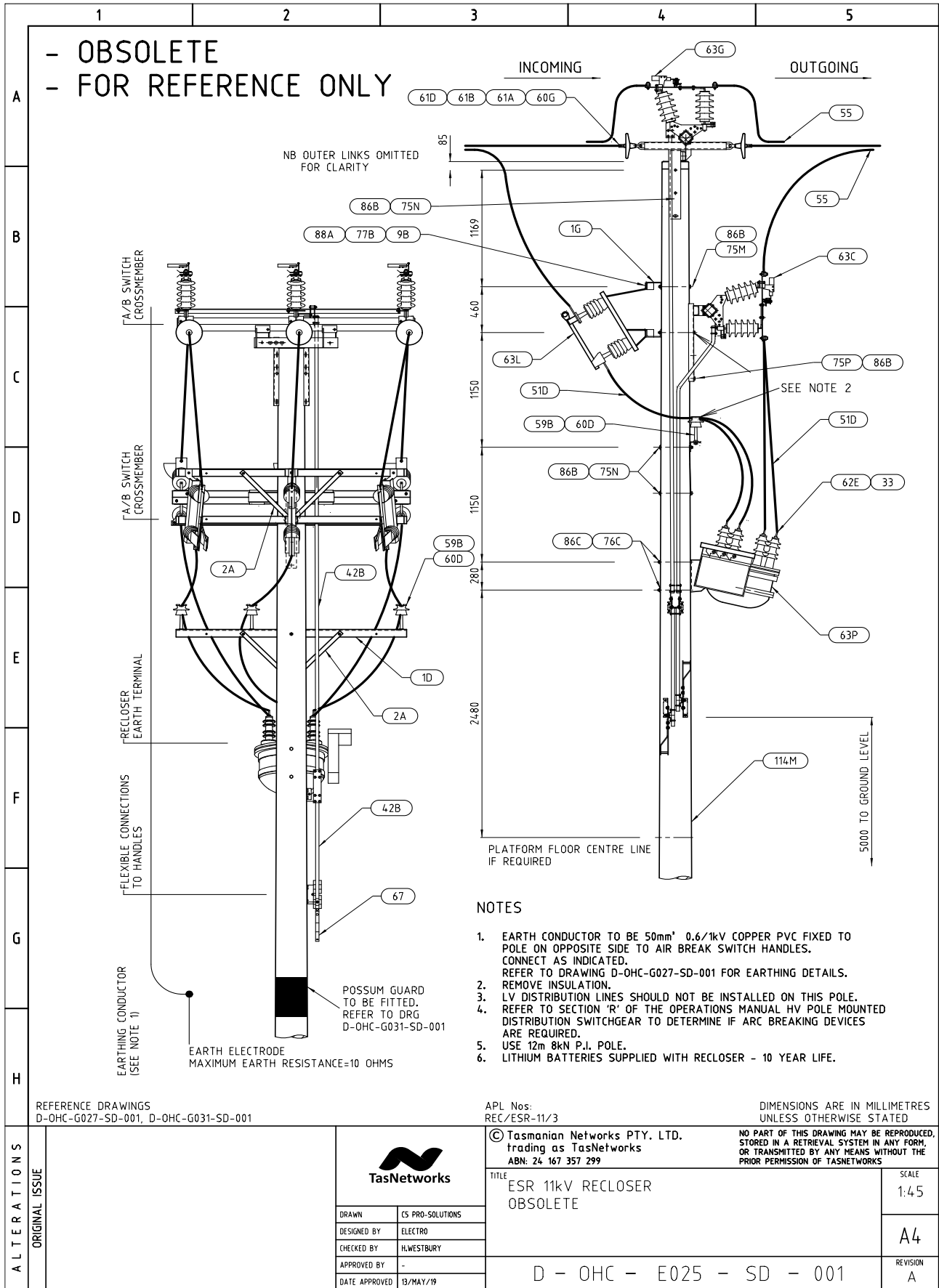
### 5.4 Nulec / Schneider Recloser – 22kV with ABS (Obsolete)




Nulec / Schneider Recloser – 22kV with ABS (Obsolete) – Materials List

|                  | 1  | 2  | 3  | 4   | 5   |               |            |            |  |             |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
|------------------|--|--|--|---|---|---------------|------------|------------|--|-------------|----------|------------------|---|-----|--------|-------------------|---|------------------|---|-----|--------|--------------------|---|------------------|---|-----|--------|--------------------|---|------------------|---|-----|--------|--------------------|---|------------------|---|-----|--------|---------------------|----|------------------|---|-----|--------|---------------|----|------------------|---|-----|--------|--------------|---|------------------|---|-----|--------|-----------------|---|------------------|---|-----|--------|-------------------------|---|------------------|---|-----|--------|--------------------------------|---|------------------|---|-----|--------|--|---|------------------|---|------|--------|--|---|------------------|---|------|--------|---|---|------------------|---|-----|--------|-----------------------|---|------------------|---|------|--------|---|---|------------------|---|-----|--------|--------------------------------|---|------------------|---|-----|--------|----------------------------|---|------------------|---|-----|--------|-----------------|----|------------------|---|-----|--------|-------------------|---|------------------|---|-----|--------|----------|----|------------------|---|-----|--------|--------------------|---|------------------|---|----|--------|--------------|---|------------------|---|----|--------|--------------|---|------------------|---|----|--------|---------------------|---|--|--|--|--|--|--|
| A                | <table border="1"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>73C</td><td>032181</td><td>Bolt Hex M10 X 45</td><td>6</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>75L</td><td>032286</td><td>Bolt Hex M16 X 300</td><td>7</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>75N</td><td>032288</td><td>Bolt Hex M16 X 350</td><td>4</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>75Q</td><td>032290</td><td>Bolt Hex M16 X 400</td><td>2</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>78B</td><td>033781</td><td>Bolt Tower M16 X 40</td><td>10</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>86B</td><td>065158</td><td>Washer Els 16</td><td>13</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>87B</td><td>065614</td><td>Washer Ns 10</td><td>6</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>88A</td><td>066412</td><td>Washer Tower 12</td><td>6</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>36F</td><td>141299</td><td>Lug Bolted 16mm-12 hole</td><td>3</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>55E</td><td>144955</td><td>Parallel groove clamp Bi-metal</td><td>3</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>35K</td><td>152482</td><td>Lug Crimp Bimetal 185mm<sup>2</sup> M12</td><td>6</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>119A</td><td>225796</td><td>Lighting Arrester 10kA 21kV poly EGB21</td><td>6</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>119B</td><td>225797</td><td>Earth Lead Disconnect E4 to suit 225796</td><td>6</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>55L</td><td>225798</td><td>Tee Clamp AL - TCDA19</td><td>3</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>119C</td><td>225799</td><td>Lightning Arrester mount to suit 225796</td><td>6</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>63C</td><td>235707</td><td>Switch Air Break vert unitised</td><td>1</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>42B</td><td>244207</td><td>Down Rod 25mm NB Pipe 6.5m</td><td>1</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>60G</td><td>321260</td><td>Insulator, Disc</td><td>12</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>61A</td><td>322056</td><td>Ball Clevis &amp; Pin</td><td>6</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>61D</td><td>322090</td><td>Kink Pin</td><td>12</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>61B</td><td>322386</td><td>Socket Termination</td><td>6</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>1D</td><td>323304</td><td>Crossarm Mk4</td><td>1</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>1E</td><td>323305</td><td>Crossarm Mk5</td><td>2</td></tr> <tr><td>REC/NULEC.22/3.R</td><td>S</td><td>2A</td><td>323314</td><td>Crossarm Strap Mk14</td><td>6</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> |  |  |   |   | Unit Assembly | Store Type | Item Ref   | Stock Item                               | Description | Quantity | REC/NULEC.22/3.R | S | 73C | 032181 | Bolt Hex M10 X 45 | 6 | REC/NULEC.22/3.R | S | 75L | 032286 | Bolt Hex M16 X 300 | 7 | REC/NULEC.22/3.R | S | 75N | 032288 | Bolt Hex M16 X 350 | 4 | REC/NULEC.22/3.R | S | 75Q | 032290 | Bolt Hex M16 X 400 | 2 | REC/NULEC.22/3.R | S | 78B | 033781 | Bolt Tower M16 X 40 | 10 | REC/NULEC.22/3.R | S | 86B | 065158 | Washer Els 16 | 13 | REC/NULEC.22/3.R | S | 87B | 065614 | Washer Ns 10 | 6 | REC/NULEC.22/3.R | S | 88A | 066412 | Washer Tower 12 | 6 | REC/NULEC.22/3.R | S | 36F | 141299 | Lug Bolted 16mm-12 hole | 3 | REC/NULEC.22/3.R | S | 55E | 144955 | Parallel groove clamp Bi-metal | 3 | REC/NULEC.22/3.R | S | 35K | 152482 | Lug Crimp Bimetal 185mm <sup>2</sup> M12 | 6 | REC/NULEC.22/3.R | S | 119A | 225796 | Lighting Arrester 10kA 21kV poly EGB21 | 6 | REC/NULEC.22/3.R | S | 119B | 225797 | Earth Lead Disconnect E4 to suit 225796 | 6 | REC/NULEC.22/3.R | S | 55L | 225798 | Tee Clamp AL - TCDA19 | 3 | REC/NULEC.22/3.R | S | 119C | 225799 | Lightning Arrester mount to suit 225796 | 6 | REC/NULEC.22/3.R | S | 63C | 235707 | Switch Air Break vert unitised | 1 | REC/NULEC.22/3.R | S | 42B | 244207 | Down Rod 25mm NB Pipe 6.5m | 1 | REC/NULEC.22/3.R | S | 60G | 321260 | Insulator, Disc | 12 | REC/NULEC.22/3.R | S | 61A | 322056 | Ball Clevis & Pin | 6 | REC/NULEC.22/3.R | S | 61D | 322090 | Kink Pin | 12 | REC/NULEC.22/3.R | S | 61B | 322386 | Socket Termination | 6 | REC/NULEC.22/3.R | S | 1D | 323304 | Crossarm Mk4 | 1 | REC/NULEC.22/3.R | S | 1E | 323305 | Crossarm Mk5 | 2 | REC/NULEC.22/3.R | S | 2A | 323314 | Crossarm Strap Mk14 | 6 |  |  |  |  |  |  |
| Unit Assembly    |  |  |  |   |   | Store Type    | Item Ref   | Stock Item | Description                              | Quantity    |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R |  |  |  |   |   | S             | 73C        | 032181     | Bolt Hex M10 X 45                        | 6           |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R |  |  |  |   |   | S             | 75L        | 032286     | Bolt Hex M16 X 300                       | 7           |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R |  |  |  |   |   | S             | 75N        | 032288     | Bolt Hex M16 X 350                       | 4           |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R |  |  |  |   |   | S             | 75Q        | 032290     | Bolt Hex M16 X 400                       | 2           |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R |  |  |  |   |   | S             | 78B        | 033781     | Bolt Tower M16 X 40                      | 10          |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R |  |  |  |   |   | S             | 86B        | 065158     | Washer Els 16                            | 13          |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R |  |  |  |   |   | S             | 87B        | 065614     | Washer Ns 10                             | 6           |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R |  |  |  |   |   | S             | 88A        | 066412     | Washer Tower 12                          | 6           |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R |  |  |  |   |   | S             | 36F        | 141299     | Lug Bolted 16mm-12 hole                  | 3           |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R |  |  |  |   |   | S             | 55E        | 144955     | Parallel groove clamp Bi-metal           | 3           |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R |  |  |  |   |   | S             | 35K        | 152482     | Lug Crimp Bimetal 185mm <sup>2</sup> M12 | 6           |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R |  |  |  |   |   | S             | 119A       | 225796     | Lighting Arrester 10kA 21kV poly EGB21   | 6           |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R |  |  |  |   |   | S             | 119B       | 225797     | Earth Lead Disconnect E4 to suit 225796  | 6           |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R |  |  |  |   |   | S             | 55L        | 225798     | Tee Clamp AL - TCDA19                    | 3           |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R |  |  |  |   |   | S             | 119C       | 225799     | Lightning Arrester mount to suit 225796  | 6           |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R |  |  |  |   |   | S             | 63C        | 235707     | Switch Air Break vert unitised           | 1           |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R |  |  |  |   |   | S             | 42B        | 244207     | Down Rod 25mm NB Pipe 6.5m               | 1           |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R |  |  |  |   |   | S             | 60G        | 321260     | Insulator, Disc                          | 12          |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R | S  | 61A  | 322056   | Ball Clevis & Pin   | 6   |               |            |            |  |             |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R | S  | 61D  | 322090   | Kink Pin  | 12  |               |            |            |  |             |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R | S  | 61B  | 322386   | Socket Termination  | 6   |               |            |            |  |             |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R | S  | 1D   | 323304   | Crossarm Mk4  | 1   |               |            |            |  |             |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R | S  | 1E   | 323305   | Crossarm Mk5  | 2   |               |            |            |  |             |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| REC/NULEC.22/3.R | S  | 2A   | 323314   | Crossarm Strap Mk14   | 6   |               |            |            |  |             |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
|                  |  |  |  |   |   |               |            |            |  |             |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| B                |  |  |  |   |   |               |            |            |  |             |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| C                |  |  |  |   |   |               |            |            |  |             |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| D                |  |  |  |   |   |               |            |            |  |             |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| E                |  |  |  |   |   |               |            |            |  |             |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| F                | <p>- OBSOLETE<br/>- FOR REFERENCE ONLY</p>   |  |  |   |   |               |            |            |  |             |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| G                |  |  |  |   |   |               |            |            |  |             |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| H                |  |  |  |   |   |               |            |            |  |             |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
| ALTERATIONS      | ORIGINAL ISSUE   |                                 |  | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299 |   |               |            |            |  |             |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
|                  |  | DRAWN CS PRO-SOLUTIONS<br>DESIGNED BY ELECTRO<br>CHECKED BY HLWESTBURY<br>APPROVED BY -<br>DATE APPROVED 08/MAY/19 | TITLE<br>RECLOSER NULEC/SCHNEIDER 22kV<br>- WITH SINGLE ABS RADIAL FEEDERS<br>OBSOLETE |   | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNETWORKS |               |            |            |  |             |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |
|                  |  |  | D - OHC - E023 - SD - 002  |   | SCALE<br>NTS<br><br>A4<br><br>REVISION<br>A   |               |            |            |  |             |          |                  |   |     |        |                   |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |    |                  |   |     |        |               |    |                  |   |     |        |              |   |                  |   |     |        |                 |   |                  |   |     |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |  |   |                  |   |      |        |  |   |                  |   |      |        |   |   |                  |   |     |        |                       |   |                  |   |      |        |   |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                 |    |                  |   |     |        |                   |   |                  |   |     |        |          |    |                  |   |     |        |                    |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |  |  |  |  |  |  |

### 5.5 ESR 11kV Recloser (Obsolete)

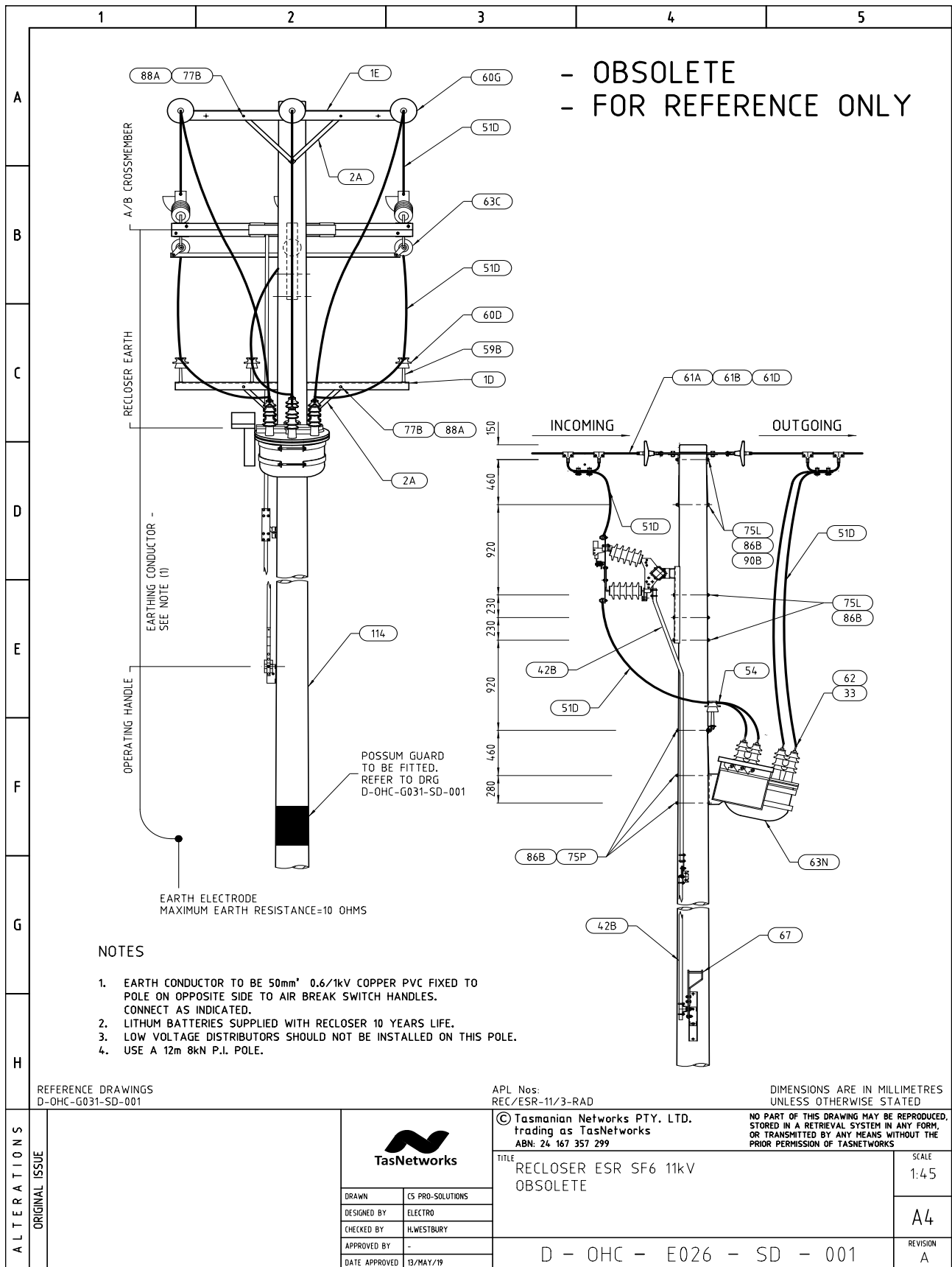


ESR 11kV Recloser (Obsolete) – Materials List


|               | 1   | 2   | 3   | 4   | 5        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
|---------------|---|---|---|---|----------|---------------|------------|----------|------------|-------------|----------|--------------|---|-----|--------|--------------------|---|--------------|---|-----|--------|--------------------|---|--------------|---|-----|--------|--------------------|---|--------------|---|-----|--------|---------------------|---|--------------|---|-----|--------|---------------|----|--------------|---|-----|--------|-----------------|---|--------------|---|-----|--------|-------------------------------------|----|--------------|---|-----|--------|--------------------|---|--------------|---|----|--------|-------------------------|---|--------------|---|-----|--------|------------------------------------|---|--------------|---|-----|--------|--------------------------------|---|--------------|---|-----|--------|------------------------------------|---|--------------|---|----|--------|----------------------|---|--------------|---|-----|--------|----------------------------|---|--------------|---|-----|--------|----------------------|---|--------------|---|-----|--------|----------------|---|--------------|---|-----|--------|-------------------|---|--------------|---|-----|--------|----------|---|--------------|---|-----|--------|--------------------|---|--------------|---|-----|--------|--------------------|---|--------------|---|----|--------|--------------|---|--------------|---|----|--------|--------------|---|--------------|---|----|--------|---------------------|---|--------------|---|--|--------|-------------------|---|
| A             | <table border="1"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr><td>REC/ESR.11/3</td><td>S</td><td>75M</td><td>032287</td><td>Bolt Hex M16 X 325</td><td>1</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td>75N</td><td>032288</td><td>Bolt Hex M16 X 350</td><td>5</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td>75P</td><td>032289</td><td>Bolt Hex M16 X 375</td><td>5</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td>77B</td><td>033771</td><td>Bolt Tower M12 X 35</td><td>9</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td>86B</td><td>065158</td><td>Washer Els 16</td><td>11</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td>88A</td><td>066412</td><td>Washer Tower 12</td><td>9</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td>51D</td><td>103213</td><td>Cond Cu Ins HD 1c 70mm<sup>2</sup></td><td>12</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td>62E</td><td>144617</td><td>Bushing Cover 11kV</td><td>6</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td>33</td><td>155132</td><td>Clamp Brass - earth rod</td><td>6</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td>63G</td><td>235705</td><td>Switch Air Break horz ARC unitised</td><td>1</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td>63C</td><td>235707</td><td>Switch Air Break vert unitised</td><td>1</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td>63L</td><td>236088</td><td>Switch Isol Vert 24kV single phase</td><td>3</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td>9B</td><td>236140</td><td>Fuse Bracket Stanger</td><td>3</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td>42B</td><td>244207</td><td>Down Rod 25mm NB Pipe 6.5m</td><td>2</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td>60E</td><td>320531</td><td>Insulator,Pin 22/450</td><td>3</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td>60G</td><td>321260</td><td>Insulator,Disc</td><td>6</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td>61A</td><td>322056</td><td>Ball Clevis &amp; Pin</td><td>6</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td>61D</td><td>322090</td><td>Kink Pin</td><td>6</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td>61B</td><td>322386</td><td>Socket Termination</td><td>6</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td>59A</td><td>322721</td><td>Pin,Insulator 22kV</td><td>3</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td>1D</td><td>323304</td><td>Crossarm Mk4</td><td>1</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td>1G</td><td>323309</td><td>Crossarm Mk9</td><td>2</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td>2A</td><td>323314</td><td>Crossarm Strap Mk14</td><td>4</td></tr> <tr><td>REC/ESR.11/3</td><td>S</td><td></td><td>990426</td><td>Recloser ESR 12kV</td><td>1</td></tr> </tbody> </table> |   |   |   |          | Unit Assembly | Store Type | Item Ref | Stock Item | Description | Quantity | REC/ESR.11/3 | S | 75M | 032287 | Bolt Hex M16 X 325 | 1 | REC/ESR.11/3 | S | 75N | 032288 | Bolt Hex M16 X 350 | 5 | REC/ESR.11/3 | S | 75P | 032289 | Bolt Hex M16 X 375 | 5 | REC/ESR.11/3 | S | 77B | 033771 | Bolt Tower M12 X 35 | 9 | REC/ESR.11/3 | S | 86B | 065158 | Washer Els 16 | 11 | REC/ESR.11/3 | S | 88A | 066412 | Washer Tower 12 | 9 | REC/ESR.11/3 | S | 51D | 103213 | Cond Cu Ins HD 1c 70mm <sup>2</sup> | 12 | REC/ESR.11/3 | S | 62E | 144617 | Bushing Cover 11kV | 6 | REC/ESR.11/3 | S | 33 | 155132 | Clamp Brass - earth rod | 6 | REC/ESR.11/3 | S | 63G | 235705 | Switch Air Break horz ARC unitised | 1 | REC/ESR.11/3 | S | 63C | 235707 | Switch Air Break vert unitised | 1 | REC/ESR.11/3 | S | 63L | 236088 | Switch Isol Vert 24kV single phase | 3 | REC/ESR.11/3 | S | 9B | 236140 | Fuse Bracket Stanger | 3 | REC/ESR.11/3 | S | 42B | 244207 | Down Rod 25mm NB Pipe 6.5m | 2 | REC/ESR.11/3 | S | 60E | 320531 | Insulator,Pin 22/450 | 3 | REC/ESR.11/3 | S | 60G | 321260 | Insulator,Disc | 6 | REC/ESR.11/3 | S | 61A | 322056 | Ball Clevis & Pin | 6 | REC/ESR.11/3 | S | 61D | 322090 | Kink Pin | 6 | REC/ESR.11/3 | S | 61B | 322386 | Socket Termination | 6 | REC/ESR.11/3 | S | 59A | 322721 | Pin,Insulator 22kV | 3 | REC/ESR.11/3 | S | 1D | 323304 | Crossarm Mk4 | 1 | REC/ESR.11/3 | S | 1G | 323309 | Crossarm Mk9 | 2 | REC/ESR.11/3 | S | 2A | 323314 | Crossarm Strap Mk14 | 4 | REC/ESR.11/3 | S |  | 990426 | Recloser ESR 12kV | 1 |
| Unit Assembly | Store Type  | Item Ref  | Stock Item  | Description   | Quantity |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 75M   | 032287  | Bolt Hex M16 X 325  | 1        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 75N   | 032288  | Bolt Hex M16 X 350  | 5        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 75P   | 032289  | Bolt Hex M16 X 375  | 5        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 77B   | 033771  | Bolt Tower M12 X 35   | 9        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 86B   | 065158  | Washer Els 16   | 11       |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 88A   | 066412  | Washer Tower 12   | 9        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 51D   | 103213  | Cond Cu Ins HD 1c 70mm <sup>2</sup>   | 12       |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 62E   | 144617  | Bushing Cover 11kV  | 6        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 33  | 155132  | Clamp Brass - earth rod   | 6        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 63G   | 235705  | Switch Air Break horz ARC unitised  | 1        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 63C   | 235707  | Switch Air Break vert unitised  | 1        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 63L   | 236088  | Switch Isol Vert 24kV single phase  | 3        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 9B  | 236140  | Fuse Bracket Stanger  | 3        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 42B   | 244207  | Down Rod 25mm NB Pipe 6.5m  | 2        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 60E   | 320531  | Insulator,Pin 22/450  | 3        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 60G   | 321260  | Insulator,Disc  | 6        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 61A   | 322056  | Ball Clevis & Pin   | 6        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 61D   | 322090  | Kink Pin  | 6        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 61B   | 322386  | Socket Termination  | 6        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 59A   | 322721  | Pin,Insulator 22kV  | 3        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 1D  | 323304  | Crossarm Mk4  | 1        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 1G  | 323309  | Crossarm Mk9  | 2        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   | 2A  | 323314  | Crossarm Strap Mk14   | 4        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| REC/ESR.11/3  | S   |   | 990426  | Recloser ESR 12kV   | 1        |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| B             |   |   |   |   |          |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| C             |   |   |   |   |          |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| D             |   |   |   |   |          |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| E             | <p>- OBSOLETE<br/>- FOR REFERENCE ONLY</p>  |   |   |   |          |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| F             |   |   |   |   |          |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| G             |   |   |   |   |          |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| H             |   |   |   |   |          |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
| ALTERNATIONS  | ORIGINAL ISSUE  |    |   | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299 |          |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
|               |   | NO PART OF THIS DRAWING MAY BE REPRODUCED,<br>STORED IN A RETRIEVAL SYSTEM IN ANY FORM,<br>OR TRANSMITTED BY ANY MEANS WITHOUT THE<br>PRIOR PERMISSION OF TASNETWORKS |   | TITLE<br>ESR 11kV RECLOSER MATERIALS LIST<br>OBSOLETE                           |          |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
|               |   | DRAWN<br>DESIGNED BY<br>CHECKED BY<br>APPROVED BY<br>DATE APPROVED  | ES PRO-SOLUTIONS<br>ELECTRO<br>HLWESTBURY<br>-<br>13/MAY/19 | SCALE<br>NTS<br>A4<br>REVISION<br>A   |          |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |
|               |   |   |   | D - OHC - E025 - SD - 002   |          |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |   |              |   |     |        |                                     |    |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                      |   |              |   |     |        |                |   |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |  |        |                   |   |



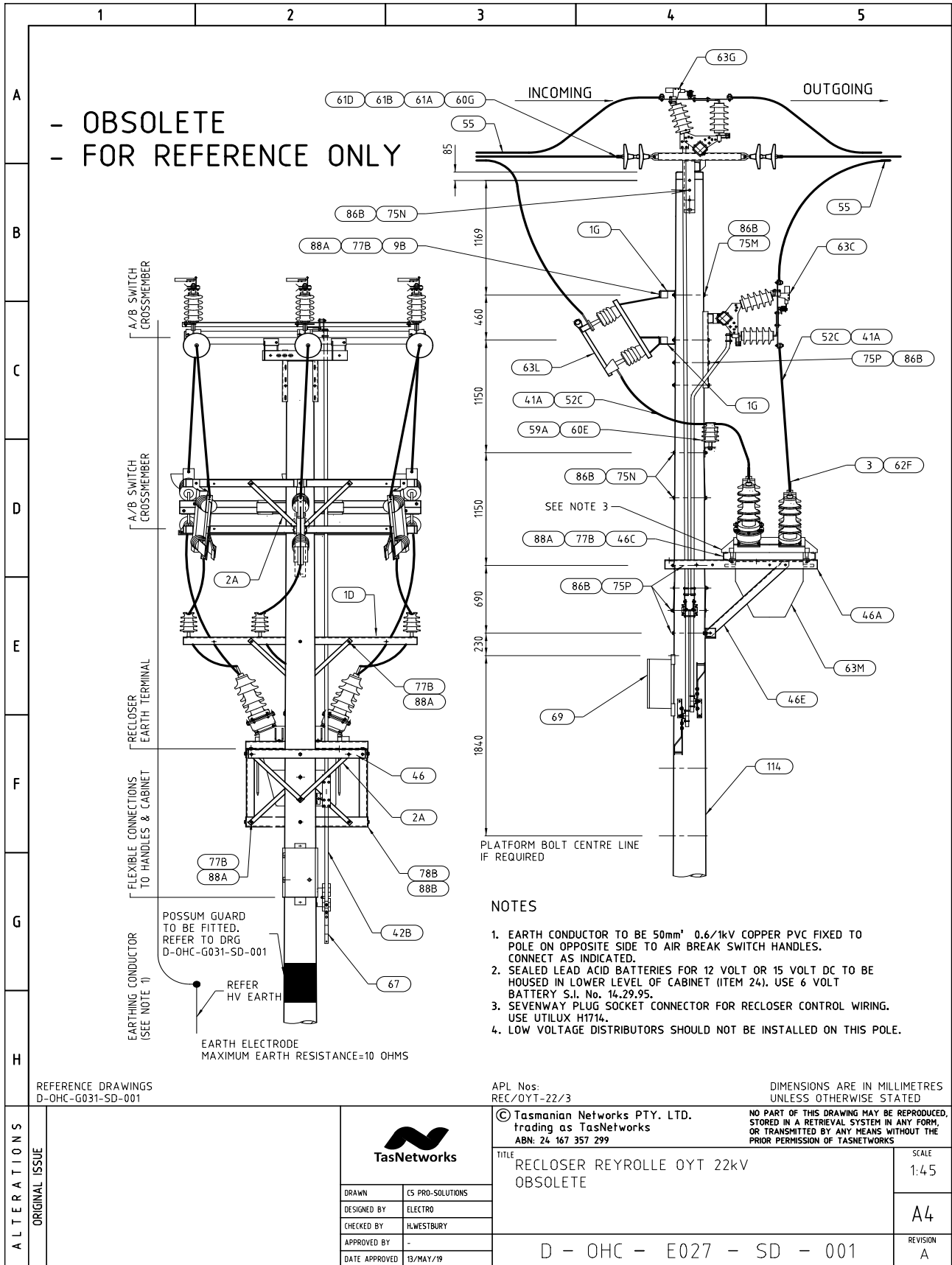
### 5.6 ESR SF<sub>6</sub> 11kV Recloser (Obsolete)




ESR SF6 11kV Recloser (Obsolete) – Materials List

|                  | 1   | 2   | 3                | 4   | 5        |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
|------------------|---|---|------------------|---|----------|---------------|------------|----------|------------|-------------|----------|------------------|---|-----|--------|--------------------|---|------------------|---|-----|--------|--------------------|---|------------------|---|-----|--------|---------------------|---|------------------|---|-----|--------|---------------|----|------------------|---|-----|--------|-----------------|---|------------------|---|-----|--------|-------------------------------------|----|------------------|---|-----|--------|--------------------|---|------------------|---|----|--------|-------------------------|---|------------------|---|-----|--------|--------------------------------|---|------------------|---|-----|--------|----------------------------|---|------------------|---|-----|--------|-----------------------|---|------------------|---|-----|--------|-----------------|---|------------------|---|-----|--------|-------------------|---|------------------|---|-----|--------|----------|---|------------------|---|-----|--------|--------------------|---|------------------|---|-----|--------|---------------------|---|------------------|---|----|--------|--------------|---|------------------|---|----|--------|--------------|---|------------------|---|----|--------|---------------------|---|------------------|---|--|--------|-------------------|---|--|--|--|--|--|--|
| A                | <table border="1"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr><td>REC/ESR.11/3.RAD</td><td>S</td><td>75L</td><td>032286</td><td>Bolt Hex M16 X 300</td><td>2</td></tr> <tr><td>REC/ESR.11/3.RAD</td><td>S</td><td>75P</td><td>032289</td><td>Bolt Hex M16 X 375</td><td>6</td></tr> <tr><td>REC/ESR.11/3.RAD</td><td>S</td><td>77B</td><td>033771</td><td>Bolt Tower M12 X 35</td><td>6</td></tr> <tr><td>REC/ESR.11/3.RAD</td><td>S</td><td>86B</td><td>065158</td><td>Washer Els 16</td><td>18</td></tr> <tr><td>REC/ESR.11/3.RAD</td><td>S</td><td>88A</td><td>066412</td><td>Washer Tower 12</td><td>6</td></tr> <tr><td>REC/ESR.11/3.RAD</td><td>S</td><td>51D</td><td>103213</td><td>Cond Cu Ins HD 1c 70mm<sup>2</sup></td><td>18</td></tr> <tr><td>REC/ESR.11/3.RAD</td><td>S</td><td>62F</td><td>144620</td><td>Bushing Cover 22kV</td><td>6</td></tr> <tr><td>REC/ESR.11/3.RAD</td><td>S</td><td>33</td><td>155132</td><td>Clamp Brass - earth rod</td><td>6</td></tr> <tr><td>REC/ESR.11/3.RAD</td><td>S</td><td>63C</td><td>235707</td><td>Switch Air Break vert unitised</td><td>1</td></tr> <tr><td>REC/ESR.11/3.RAD</td><td>S</td><td>42B</td><td>244207</td><td>Down Rod 25mm NB Pipe 6.5m</td><td>1</td></tr> <tr><td>REC/ESR.11/3.RAD</td><td>S</td><td>60E</td><td>320531</td><td>Insulator, Pin 22/450</td><td>3</td></tr> <tr><td>REC/ESR.11/3.RAD</td><td>S</td><td>60G</td><td>321260</td><td>Insulator, Disc</td><td>6</td></tr> <tr><td>REC/ESR.11/3.RAD</td><td>S</td><td>61A</td><td>322056</td><td>Ball Clevis &amp; Pin</td><td>6</td></tr> <tr><td>REC/ESR.11/3.RAD</td><td>S</td><td>61D</td><td>322090</td><td>Kink Pin</td><td>6</td></tr> <tr><td>REC/ESR.11/3.RAD</td><td>S</td><td>61B</td><td>322386</td><td>Socket Termination</td><td>6</td></tr> <tr><td>REC/ESR.11/3.RAD</td><td>S</td><td>59A</td><td>322721</td><td>Pin, Insulator 22kV</td><td>3</td></tr> <tr><td>REC/ESR.11/3.RAD</td><td>S</td><td>1D</td><td>323304</td><td>Crossarm Mk4</td><td>1</td></tr> <tr><td>REC/ESR.11/3.RAD</td><td>S</td><td>1E</td><td>323305</td><td>Crossarm Mk5</td><td>2</td></tr> <tr><td>REC/ESR.11/3.RAD</td><td>S</td><td>2A</td><td>323314</td><td>Crossarm Strap Mk14</td><td>4</td></tr> <tr><td>REC/ESR.11/3.RAD</td><td>S</td><td></td><td>990426</td><td>Recloser ESR 12kV</td><td>1</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> |   |                  |   |          | Unit Assembly | Store Type | Item Ref | Stock Item | Description | Quantity | REC/ESR.11/3.RAD | S | 75L | 032286 | Bolt Hex M16 X 300 | 2 | REC/ESR.11/3.RAD | S | 75P | 032289 | Bolt Hex M16 X 375 | 6 | REC/ESR.11/3.RAD | S | 77B | 033771 | Bolt Tower M12 X 35 | 6 | REC/ESR.11/3.RAD | S | 86B | 065158 | Washer Els 16 | 18 | REC/ESR.11/3.RAD | S | 88A | 066412 | Washer Tower 12 | 6 | REC/ESR.11/3.RAD | S | 51D | 103213 | Cond Cu Ins HD 1c 70mm <sup>2</sup> | 18 | REC/ESR.11/3.RAD | S | 62F | 144620 | Bushing Cover 22kV | 6 | REC/ESR.11/3.RAD | S | 33 | 155132 | Clamp Brass - earth rod | 6 | REC/ESR.11/3.RAD | S | 63C | 235707 | Switch Air Break vert unitised | 1 | REC/ESR.11/3.RAD | S | 42B | 244207 | Down Rod 25mm NB Pipe 6.5m | 1 | REC/ESR.11/3.RAD | S | 60E | 320531 | Insulator, Pin 22/450 | 3 | REC/ESR.11/3.RAD | S | 60G | 321260 | Insulator, Disc | 6 | REC/ESR.11/3.RAD | S | 61A | 322056 | Ball Clevis & Pin | 6 | REC/ESR.11/3.RAD | S | 61D | 322090 | Kink Pin | 6 | REC/ESR.11/3.RAD | S | 61B | 322386 | Socket Termination | 6 | REC/ESR.11/3.RAD | S | 59A | 322721 | Pin, Insulator 22kV | 3 | REC/ESR.11/3.RAD | S | 1D | 323304 | Crossarm Mk4 | 1 | REC/ESR.11/3.RAD | S | 1E | 323305 | Crossarm Mk5 | 2 | REC/ESR.11/3.RAD | S | 2A | 323314 | Crossarm Strap Mk14 | 4 | REC/ESR.11/3.RAD | S |  | 990426 | Recloser ESR 12kV | 1 |  |  |  |  |  |  |
| Unit Assembly    | Store Type  | Item Ref  | Stock Item       | Description   | Quantity |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| REC/ESR.11/3.RAD | S   | 75L   | 032286           | Bolt Hex M16 X 300  | 2        |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| REC/ESR.11/3.RAD | S   | 75P   | 032289           | Bolt Hex M16 X 375  | 6        |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| REC/ESR.11/3.RAD | S   | 77B   | 033771           | Bolt Tower M12 X 35   | 6        |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| REC/ESR.11/3.RAD | S   | 86B   | 065158           | Washer Els 16   | 18       |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| REC/ESR.11/3.RAD | S   | 88A   | 066412           | Washer Tower 12   | 6        |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| REC/ESR.11/3.RAD | S   | 51D   | 103213           | Cond Cu Ins HD 1c 70mm <sup>2</sup>   | 18       |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| REC/ESR.11/3.RAD | S   | 62F   | 144620           | Bushing Cover 22kV  | 6        |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| REC/ESR.11/3.RAD | S   | 33  | 155132           | Clamp Brass - earth rod   | 6        |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| REC/ESR.11/3.RAD | S   | 63C   | 235707           | Switch Air Break vert unitised  | 1        |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| REC/ESR.11/3.RAD | S   | 42B   | 244207           | Down Rod 25mm NB Pipe 6.5m  | 1        |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| REC/ESR.11/3.RAD | S   | 60E   | 320531           | Insulator, Pin 22/450   | 3        |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| REC/ESR.11/3.RAD | S   | 60G   | 321260           | Insulator, Disc   | 6        |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| REC/ESR.11/3.RAD | S   | 61A   | 322056           | Ball Clevis & Pin   | 6        |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| REC/ESR.11/3.RAD | S   | 61D   | 322090           | Kink Pin  | 6        |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| REC/ESR.11/3.RAD | S   | 61B   | 322386           | Socket Termination  | 6        |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| REC/ESR.11/3.RAD | S   | 59A   | 322721           | Pin, Insulator 22kV   | 3        |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| REC/ESR.11/3.RAD | S   | 1D  | 323304           | Crossarm Mk4  | 1        |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| REC/ESR.11/3.RAD | S   | 1E  | 323305           | Crossarm Mk5  | 2        |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| REC/ESR.11/3.RAD | S   | 2A  | 323314           | Crossarm Strap Mk14   | 4        |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| REC/ESR.11/3.RAD | S   |   | 990426           | Recloser ESR 12kV   | 1        |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
|                  |   |   |                  |   |          |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| B                |   |   |                  |   |          |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| C                |   |   |                  |   |          |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| D                | <p>- OBSOLETE<br/>- FOR REFERENCE ONLY</p>  |   |                  |   |          |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| E                |   |   |                  |   |          |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| F                |   |   |                  |   |          |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| G                |   |   |                  |   |          |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| H                |   |   |                  |   |          |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
| ALTERATIONS      | ORIGINAL ISSUE  |  |                  | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299 |          |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
|                  |   | DRAWN   | CS PRO-SOLUTIONS | TITLE<br>RECLOSER ESR SF6 11kV<br>MATERIALS LIST<br>OBSOLETE                    |          |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
|                  |   | DESIGNED BY   | ELECTRO          | SCALE<br>NTS  |          |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
|                  |   | CHECKED BY  | H.WESTBURY       | A4  |          |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
|                  |   | APPROVED BY   | -                | REVISION<br>A   |          |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |
|                  |   | DATE APPROVED   | 19/MAY/19        | D - OHC - E026 - SD - 002   |          |               |            |          |            |             |          |                  |   |     |        |                    |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |     |        |               |    |                  |   |     |        |                 |   |                  |   |     |        |                                     |    |                  |   |     |        |                    |   |                  |   |    |        |                         |   |                  |   |     |        |                                |   |                  |   |     |        |                            |   |                  |   |     |        |                       |   |                  |   |     |        |                 |   |                  |   |     |        |                   |   |                  |   |     |        |          |   |                  |   |     |        |                    |   |                  |   |     |        |                     |   |                  |   |    |        |              |   |                  |   |    |        |              |   |                  |   |    |        |                     |   |                  |   |  |        |                   |   |  |  |  |  |  |  |

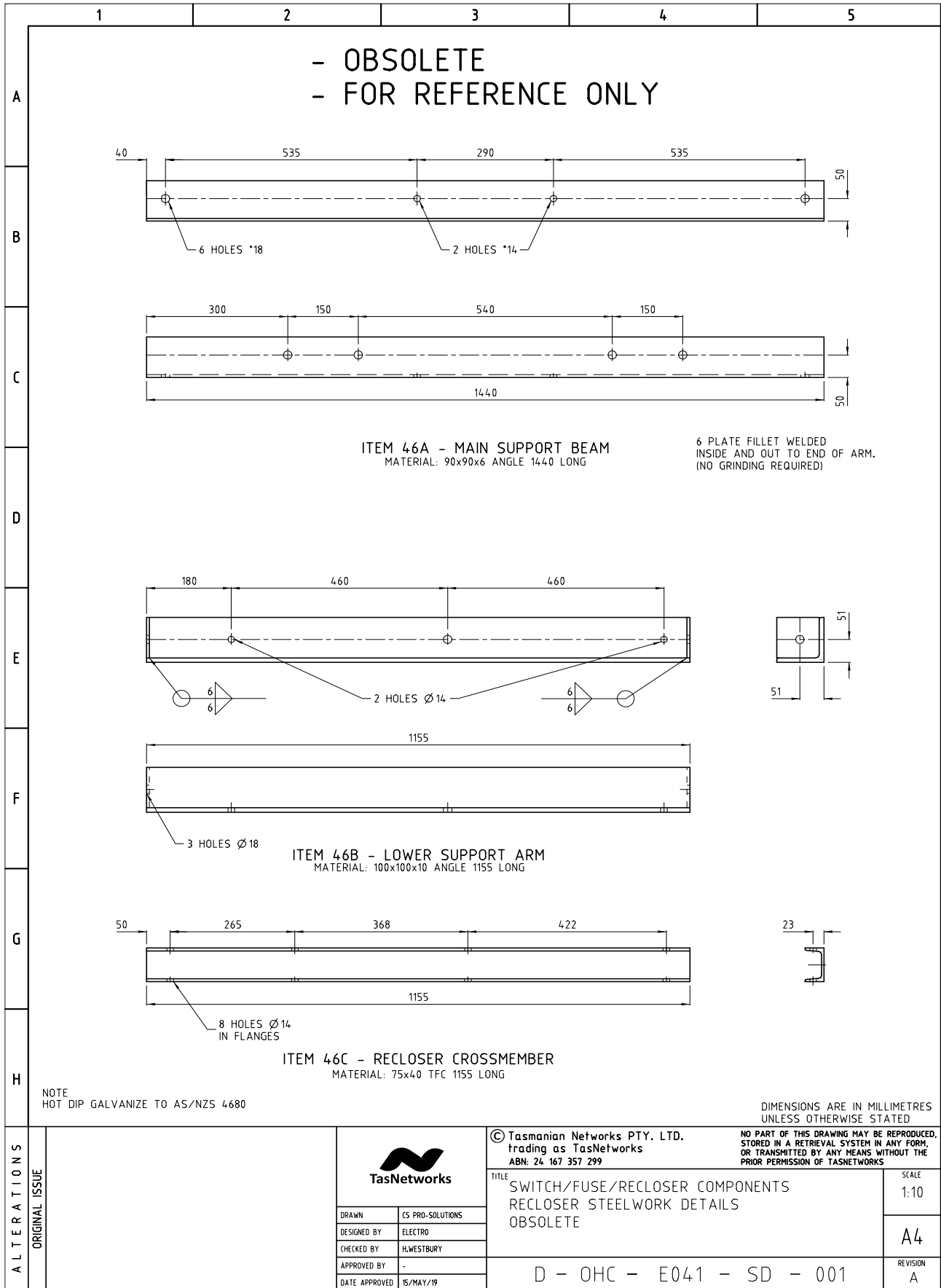
### 5.7 Reyrolle OYT 22kV Recloser (Obsolete)



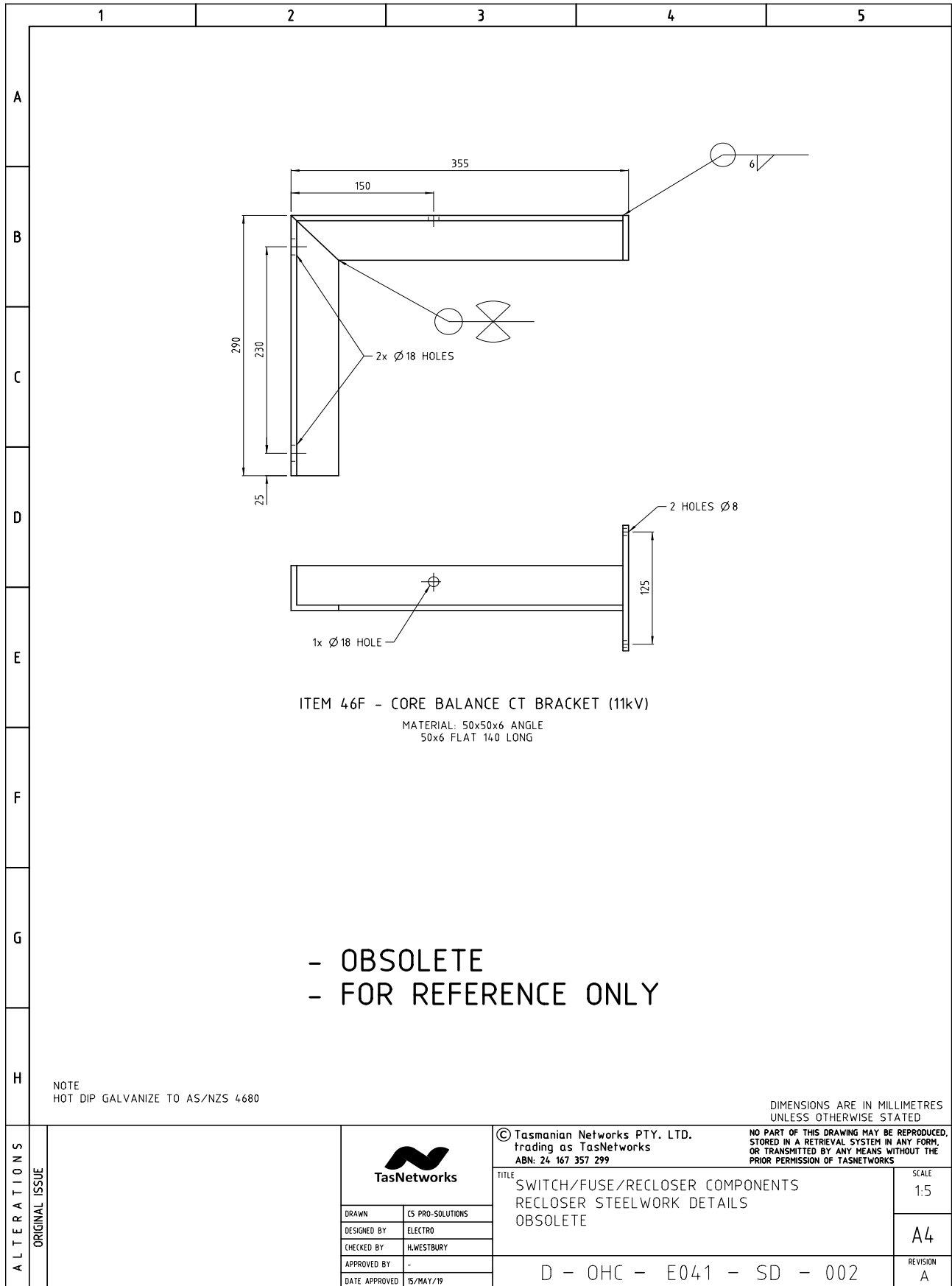
Reyrolle OYT 22kV Recloser (Obsolete) – Materials List

|               | 1  | 2  | 3   | 4   | 5                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
|---------------|--|--|---|---|-------------------------------------|---------------|------------|----------|------------|-------------|----------|--------------|---|-----|--------|--------------------|---|--------------|---|-----|--------|--------------------|---|--------------|---|-----|--------|--------------------|---|--------------|---|-----|--------|--------------------|---|--------------|---|-----|--------|---------------------|----|--------------|---|-----|--------|---------------------|---|--------------|---|-----|--------|---------------|----|--------------|---|-----|--------|-----------------|----|--------------|---|-----|--------|-----------------|---|--------------|---|-----|--------|-----------------------------|---|--------------|---|-----|--------|--------------------|---|--------------|---|----|--------|-------------------------|---|--------------|---|-----|--------|----------------------|----|--------------|---|--|--------|--------------------|---|--------------|---|-----|--------|------------------------------------|---|--------------|---|-----|--------|--------------------------------|---|--------------|---|-----|--------|------------------------------------|---|--------------|---|----|--------|----------------------|---|--------------|---|-----|--------|----------------------------|---|--------------|---|-----|--------|-----------------------|---|--------------|---|-----|--------|-----------------|----|--------------|---|-----|--------|-------------------|---|--------------|---|-----|--------|----------|---|--------------|---|-----|--------|--------------------|---|--------------|---|-----|--------|---------------------|---|--------------|---|----|--------|--------------|---|--------------|---|----|--------|--------------|---|--------------|---|----|--------|---------------------|---|--------------|---|-----|--------|--------------------------|---|
| A             | <table border="1"> <thead> <tr> <th>Unit Assembly</th> <th>Store Type</th> <th>Item Ref</th> <th>Stock Item</th> <th>Description</th> <th>Quantity</th> </tr> </thead> <tbody> <tr><td>REC/OYT.22/3</td><td>S</td><td>75L</td><td>032286</td><td>Bolt Hex M16 X 300</td><td>3</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>75M</td><td>032287</td><td>Bolt Hex M16 X 325</td><td>4</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>75N</td><td>032288</td><td>Bolt Hex M16 X 350</td><td>2</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>75P</td><td>032289</td><td>Bolt Hex M16 X 375</td><td>4</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>77B</td><td>033771</td><td>Bolt Tower M12 X 35</td><td>20</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>78B</td><td>033781</td><td>Bolt Tower M16 X 40</td><td>6</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>86B</td><td>065158</td><td>Washer Els 16</td><td>13</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>88A</td><td>066412</td><td>Washer Tower 12</td><td>20</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>88B</td><td>066413</td><td>Washer Tower 16</td><td>6</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>52C</td><td>102372</td><td>Cond Cu 2nd Hand 19/.064 kg</td><td>4</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>62F</td><td>144620</td><td>Bushing Cover 22kV</td><td>6</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>33</td><td>155132</td><td>Clamp Brass - earth rod</td><td>6</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>41B</td><td>157877</td><td>Sleeving 6 ID 2 Wall</td><td>12</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td></td><td>158582</td><td>Tubing spiral 12mm</td><td>3</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>63G</td><td>235705</td><td>Switch Air Break horz ARC unitised</td><td>1</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>63C</td><td>235707</td><td>Switch Air Break vert unitised</td><td>1</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>63L</td><td>236088</td><td>Switch Isol Vert 24kV single phase</td><td>3</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>9B</td><td>236140</td><td>Fuse Bracket Stanger</td><td>3</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>42B</td><td>244207</td><td>Down Rod 25mm NB Pipe 6.5m</td><td>2</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>60E</td><td>320531</td><td>Insulator, Pin 22/450</td><td>3</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>60G</td><td>321260</td><td>Insulator, Disc</td><td>12</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>61A</td><td>322056</td><td>Ball Clevis &amp; Pin</td><td>6</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>61D</td><td>322090</td><td>Kink Pin</td><td>6</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>61B</td><td>322386</td><td>Socket Termination</td><td>6</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>59A</td><td>322721</td><td>Pin, Insulator 22kV</td><td>3</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>1D</td><td>323304</td><td>Crossarm Mk4</td><td>1</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>1G</td><td>323309</td><td>Crossarm Mk9</td><td>2</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>2A</td><td>323314</td><td>Crossarm Strap Mk14</td><td>8</td></tr> <tr><td>REC/OYT.22/3</td><td>S</td><td>46D</td><td>323875</td><td>Recloser Member complete</td><td>1</td></tr> </tbody> </table> |  |   |   |                                     | Unit Assembly | Store Type | Item Ref | Stock Item | Description | Quantity | REC/OYT.22/3 | S | 75L | 032286 | Bolt Hex M16 X 300 | 3 | REC/OYT.22/3 | S | 75M | 032287 | Bolt Hex M16 X 325 | 4 | REC/OYT.22/3 | S | 75N | 032288 | Bolt Hex M16 X 350 | 2 | REC/OYT.22/3 | S | 75P | 032289 | Bolt Hex M16 X 375 | 4 | REC/OYT.22/3 | S | 77B | 033771 | Bolt Tower M12 X 35 | 20 | REC/OYT.22/3 | S | 78B | 033781 | Bolt Tower M16 X 40 | 6 | REC/OYT.22/3 | S | 86B | 065158 | Washer Els 16 | 13 | REC/OYT.22/3 | S | 88A | 066412 | Washer Tower 12 | 20 | REC/OYT.22/3 | S | 88B | 066413 | Washer Tower 16 | 6 | REC/OYT.22/3 | S | 52C | 102372 | Cond Cu 2nd Hand 19/.064 kg | 4 | REC/OYT.22/3 | S | 62F | 144620 | Bushing Cover 22kV | 6 | REC/OYT.22/3 | S | 33 | 155132 | Clamp Brass - earth rod | 6 | REC/OYT.22/3 | S | 41B | 157877 | Sleeving 6 ID 2 Wall | 12 | REC/OYT.22/3 | S |  | 158582 | Tubing spiral 12mm | 3 | REC/OYT.22/3 | S | 63G | 235705 | Switch Air Break horz ARC unitised | 1 | REC/OYT.22/3 | S | 63C | 235707 | Switch Air Break vert unitised | 1 | REC/OYT.22/3 | S | 63L | 236088 | Switch Isol Vert 24kV single phase | 3 | REC/OYT.22/3 | S | 9B | 236140 | Fuse Bracket Stanger | 3 | REC/OYT.22/3 | S | 42B | 244207 | Down Rod 25mm NB Pipe 6.5m | 2 | REC/OYT.22/3 | S | 60E | 320531 | Insulator, Pin 22/450 | 3 | REC/OYT.22/3 | S | 60G | 321260 | Insulator, Disc | 12 | REC/OYT.22/3 | S | 61A | 322056 | Ball Clevis & Pin | 6 | REC/OYT.22/3 | S | 61D | 322090 | Kink Pin | 6 | REC/OYT.22/3 | S | 61B | 322386 | Socket Termination | 6 | REC/OYT.22/3 | S | 59A | 322721 | Pin, Insulator 22kV | 3 | REC/OYT.22/3 | S | 1D | 323304 | Crossarm Mk4 | 1 | REC/OYT.22/3 | S | 1G | 323309 | Crossarm Mk9 | 2 | REC/OYT.22/3 | S | 2A | 323314 | Crossarm Strap Mk14 | 8 | REC/OYT.22/3 | S | 46D | 323875 | Recloser Member complete | 1 |
| Unit Assembly | Store Type   | Item Ref   | Stock Item  | Description   | Quantity                            |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 75L  | 032286  | Bolt Hex M16 X 300  | 3                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 75M  | 032287  | Bolt Hex M16 X 325  | 4                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 75N  | 032288  | Bolt Hex M16 X 350  | 2                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 75P  | 032289  | Bolt Hex M16 X 375  | 4                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 77B  | 033771  | Bolt Tower M12 X 35   | 20                                  |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 78B  | 033781  | Bolt Tower M16 X 40   | 6                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 86B  | 065158  | Washer Els 16   | 13                                  |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 88A  | 066412  | Washer Tower 12   | 20                                  |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 88B  | 066413  | Washer Tower 16   | 6                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 52C  | 102372  | Cond Cu 2nd Hand 19/.064 kg   | 4                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 62F  | 144620  | Bushing Cover 22kV  | 6                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 33   | 155132  | Clamp Brass - earth rod   | 6                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 41B  | 157877  | Sleeving 6 ID 2 Wall  | 12                                  |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  |  | 158582  | Tubing spiral 12mm  | 3                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 63G  | 235705  | Switch Air Break horz ARC unitised  | 1                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 63C  | 235707  | Switch Air Break vert unitised  | 1                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 63L  | 236088  | Switch Isol Vert 24kV single phase  | 3                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 9B   | 236140  | Fuse Bracket Stanger  | 3                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 42B  | 244207  | Down Rod 25mm NB Pipe 6.5m  | 2                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 60E  | 320531  | Insulator, Pin 22/450   | 3                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 60G  | 321260  | Insulator, Disc   | 12                                  |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 61A  | 322056  | Ball Clevis & Pin   | 6                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 61D  | 322090  | Kink Pin  | 6                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 61B  | 322386  | Socket Termination  | 6                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 59A  | 322721  | Pin, Insulator 22kV   | 3                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 1D   | 323304  | Crossarm Mk4  | 1                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 1G   | 323309  | Crossarm Mk9  | 2                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 2A   | 323314  | Crossarm Strap Mk14   | 8                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| REC/OYT.22/3  | S  | 46D  | 323875  | Recloser Member complete  | 1                                   |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| B             |  |  |   |   |                                     |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| C             |  |  |   |   |                                     |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| D             |  |  |   |   |                                     |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| E             |  |  |   |   |                                     |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| F             | <p>- OBSOLETE<br/>- FOR REFERENCE ONLY</p>   |  |   |   |                                     |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| G             |  |  |   |   |                                     |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
| H             |  |  |   |   |                                     |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
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|               |  |  |   | TITLE<br>RECLOSER REYROLLE OYT 22kV<br>MATERIALS LIST<br>OBSOLETE               |                                     |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |
|               |  |  |   | D - OHC - E027 - SD - 002   |                                     |               |            |          |            |             |          |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                    |   |              |   |     |        |                     |    |              |   |     |        |                     |   |              |   |     |        |               |    |              |   |     |        |                 |    |              |   |     |        |                 |   |              |   |     |        |                             |   |              |   |     |        |                    |   |              |   |    |        |                         |   |              |   |     |        |                      |    |              |   |  |        |                    |   |              |   |     |        |                                    |   |              |   |     |        |                                |   |              |   |     |        |                                    |   |              |   |    |        |                      |   |              |   |     |        |                            |   |              |   |     |        |                       |   |              |   |     |        |                 |    |              |   |     |        |                   |   |              |   |     |        |          |   |              |   |     |        |                    |   |              |   |     |        |                     |   |              |   |    |        |              |   |              |   |    |        |              |   |              |   |    |        |                     |   |              |   |     |        |                          |   |

### 5.8 Recloser Steelwork Detail (Obsolete)



Recloser Steelwork Detail (Obsolete)



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# SECTION 6 – POLE SUBSTATIONS / TRANSFORMERS

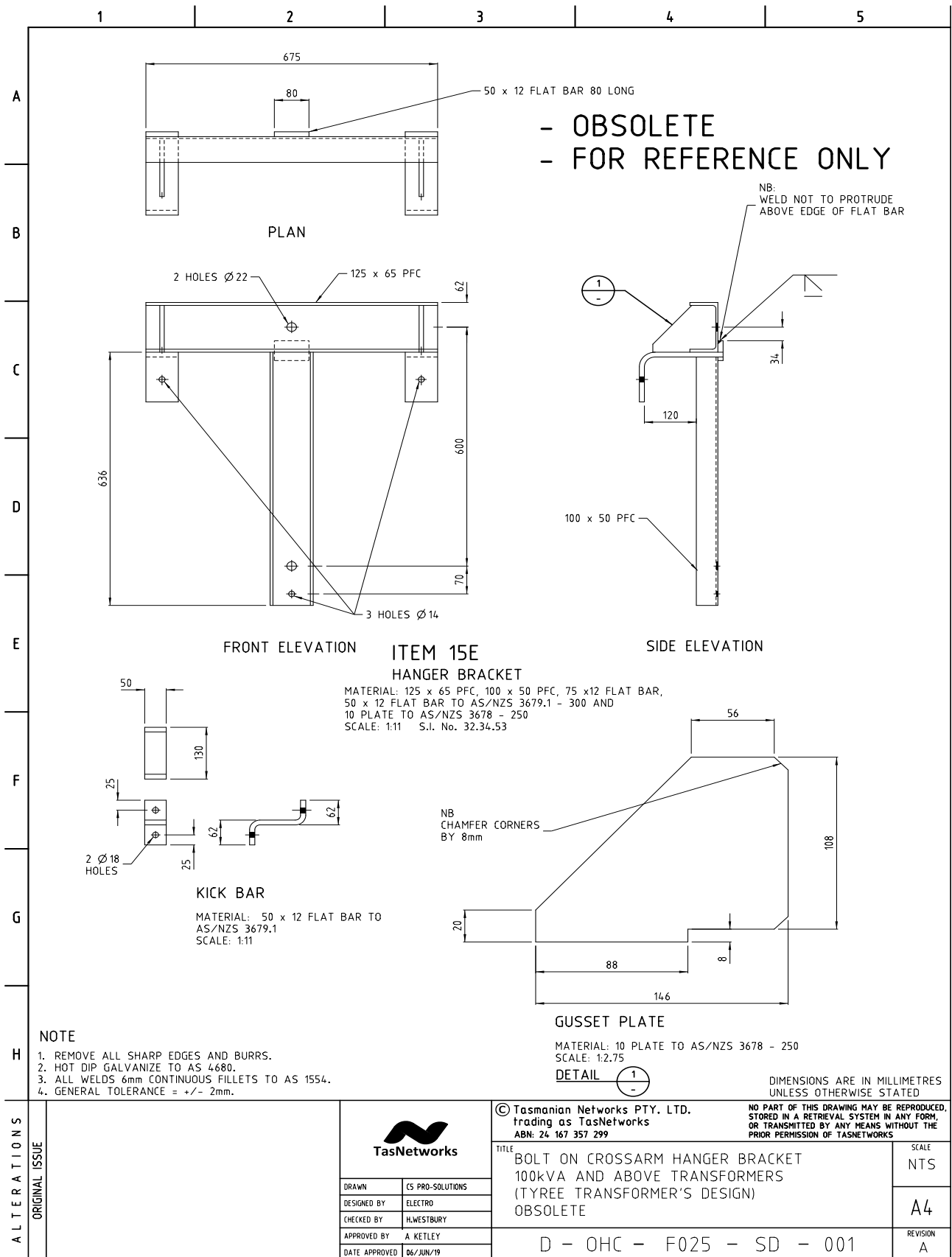




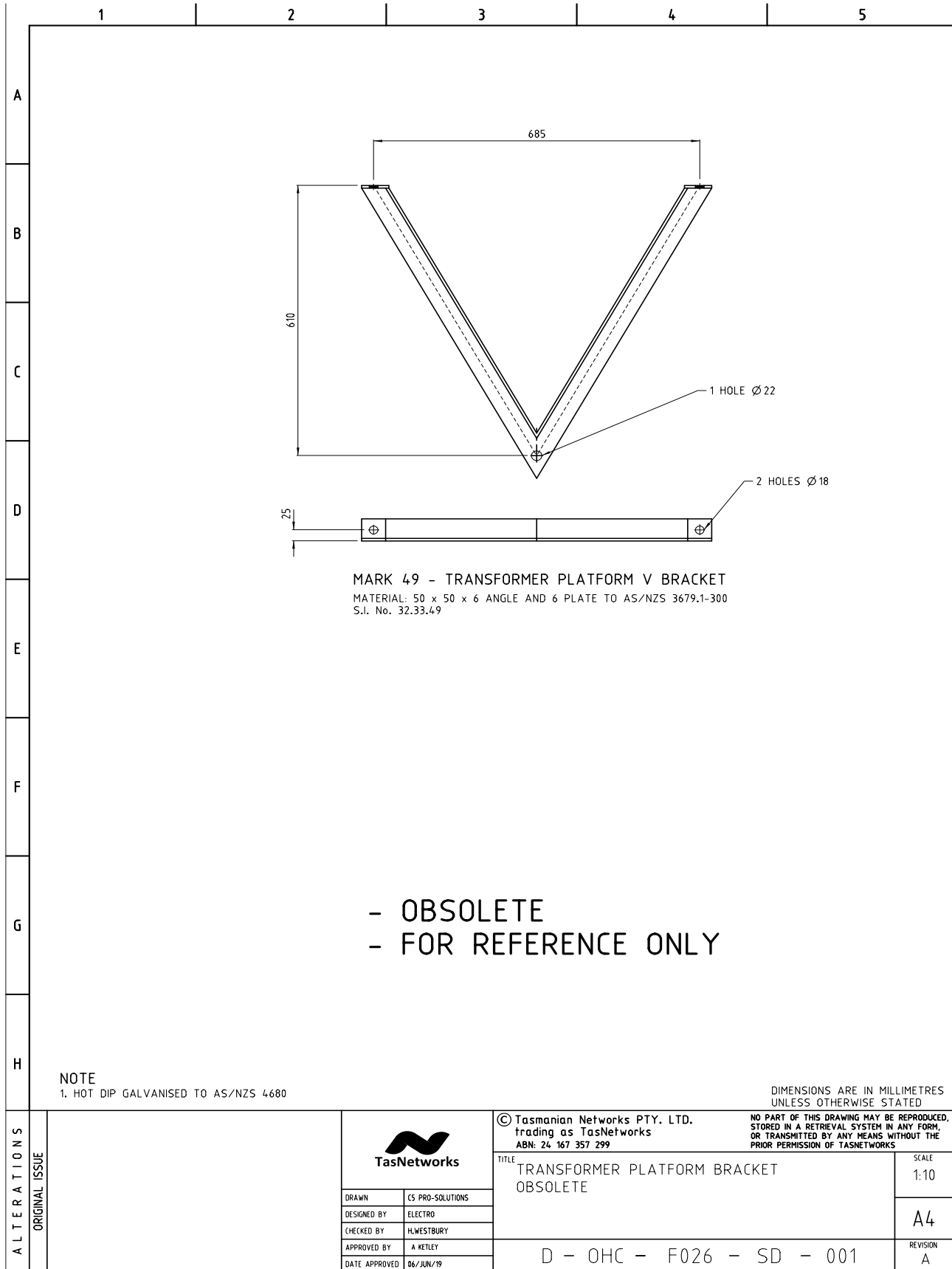
## 6 SECTION 6 – POLE SUBSTATIONS / TRANSFORMERS

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|--|---|
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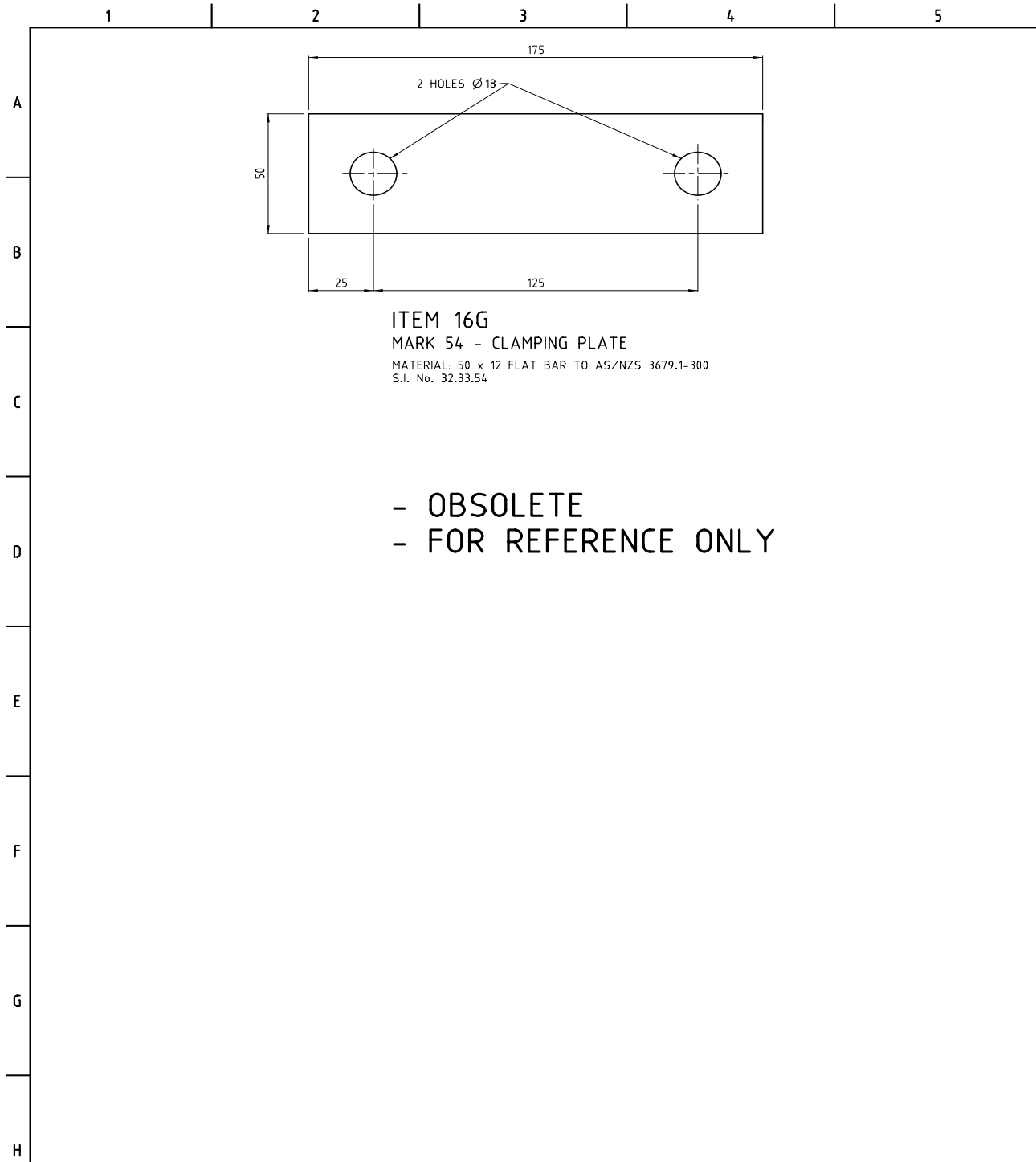
### 6.1 Bolt on Crossarm Bracket for 100 kVA and above Tye Transformers (Change)



### 6.2 Transformer Platform Bracket (Change)



### 6.3 Transformer Clamping Plate (Change)




**ITEM 16G**  
**MARK 54 - CLAMPING PLATE**  
 MATERIAL: 50 x 12 FLAT BAR TO AS/NZS 3679.1-300  
 S.I. No. 32.33.54

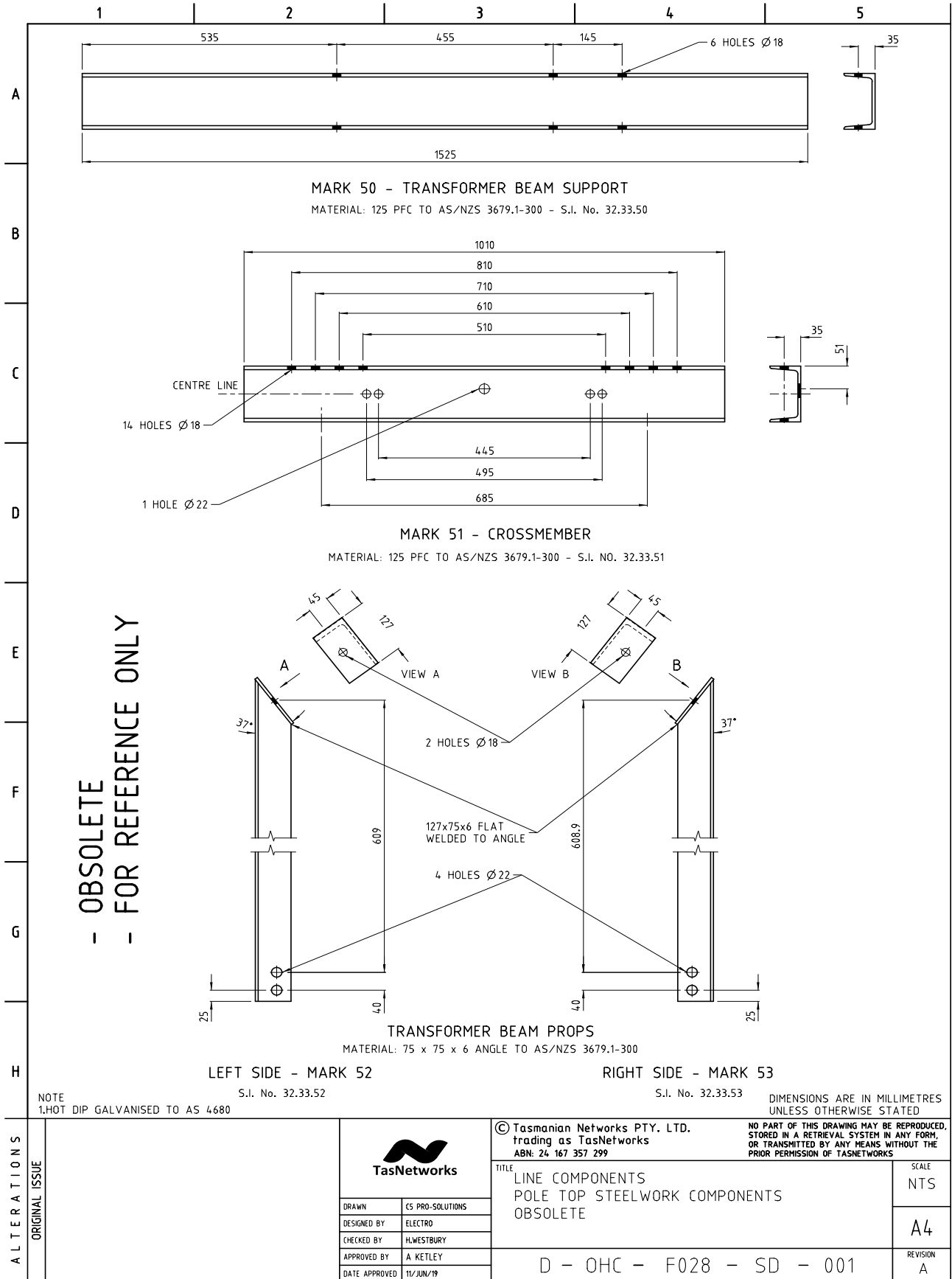
- OBSOLETE  
 - FOR REFERENCE ONLY

NOTE  
 1. HOT DIP GALVANISED TO AS 4680

DIMENSIONS ARE IN MILLIMETRES  
 UNLESS OTHERWISE STATED

|             |                |   |  |   |   |
|-------------|----------------|---|--|---|---|
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|             |                | DRAWN<br>DESIGNED BY<br>CHECKED BY<br>APPROVED BY<br>DATE APPROVED  | C5 PRO-SOLUTIONS<br>ELECTRO<br>H.WESTBURY<br>A KETLEY<br>06/JUN/19 | TITLE<br>LINE COMPONENTS<br>POLE TOP STEELWORK DETAILS<br>OBSOLETE              | SCALE<br>NTS<br>A4<br>REVISION<br>A   |
|             |                | D - OHC - F027 - SD - 001   |  |   |   |
|             |                |   |  |   |   |
|             |                |   |  |   |   |

### 6.4 Poletop Steelwork Details (Change)





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# SECTION 7 OTHER POLE MOUNTED PLANT

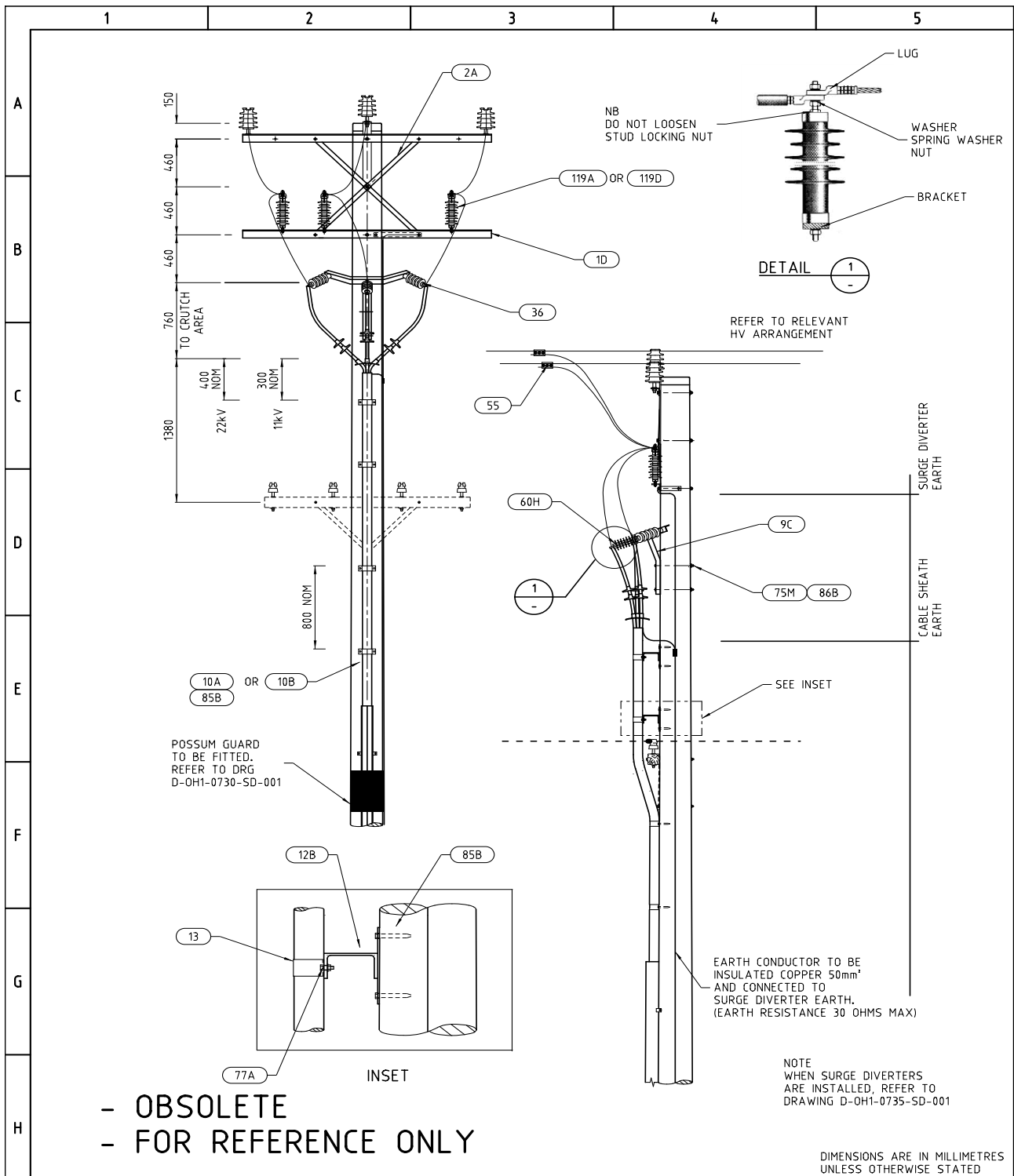





## 7 SECTION 7 – OTHER POLE MOUNTED PLANT & ATTACHMENTS

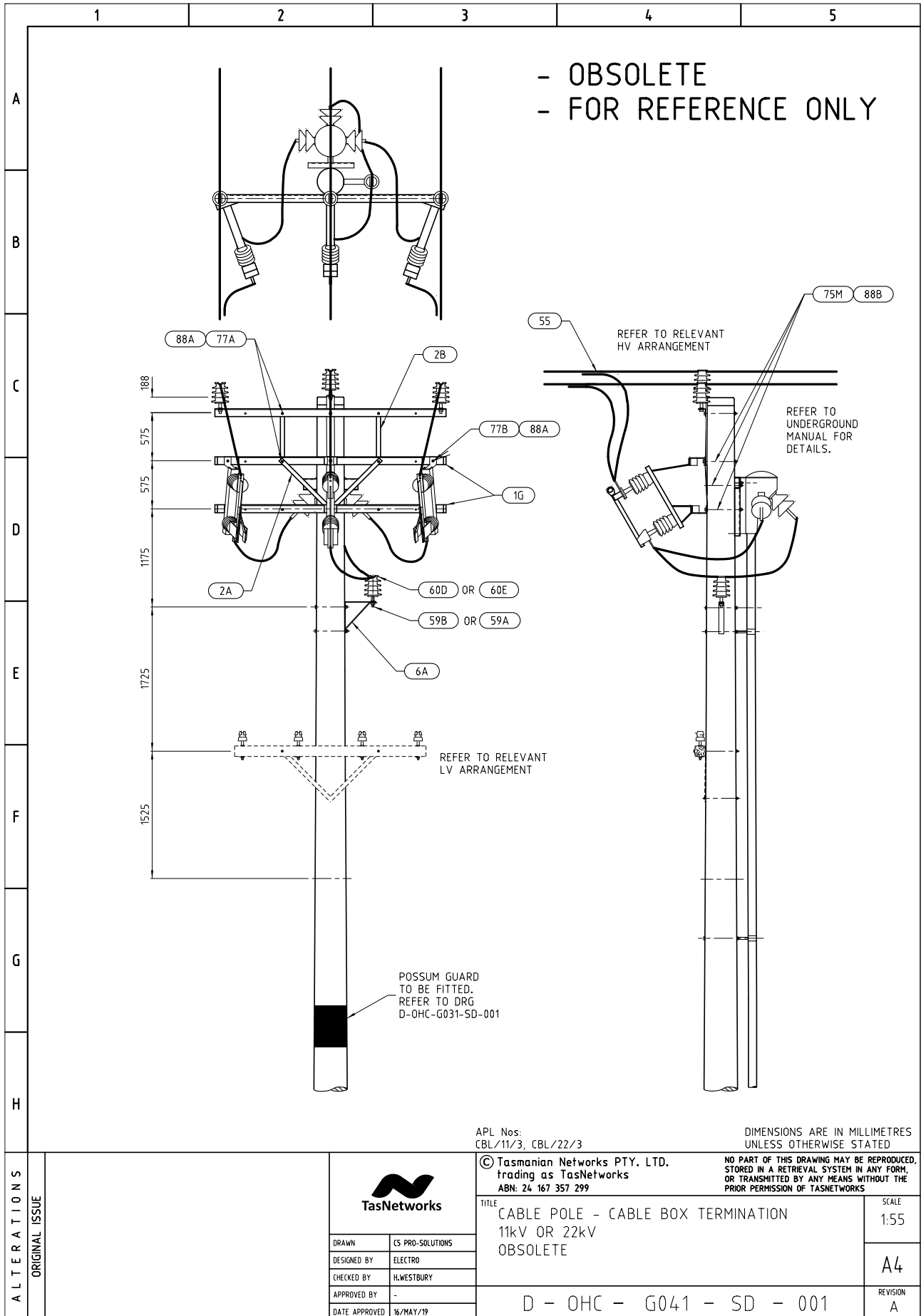
|   |   |
|---|---|
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### 7.1 11kV or 22kV UG Cable Termination on Pole – Surge Arrestors on Crossarms (Obsolete)



|             |                |  |  |   |  |   |  |
|-------------|----------------|--|--|---|--|---|--|
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|             |                | TITLE HV CABLE POLE WITH SURGE DIVERTERS<br>ON CROSS ARM<br>RAYCHEM TERMINATION<br>OBSOLETE                        |  |   |  | SCALE<br>NTS  |  |
|             |                | DRAWN CS PRO-SOLUTIONS<br>DESIGNED BY ELECTRO<br>CHECKED BY H.WESTBURY<br>APPROVED BY -<br>DATE APPROVED 16/MAY/19 |  |   |  | A4  |  |
|             |                | D - OHC - G040 - SD - 001  |  |   |  | REVISION<br>A   |  |

7.2 11kV or 22kV UG Cable Box Type Termination on Pole (Obsolete)





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# SECTION 9 – CONDUCTORS



# 9 SECTION 9 – CONDUCTORS, CABLES, CONNECTORS & ASSOCIATED FITTINGS

9 SECTION 9 – CONDUCTORS, CABLES, CONNECTORS & ASSOCIATED FITTINGS ..... 3  
9.0 Compression Sleeve / Splice Automatic Copper Splices (Obsolete) ..... 4

### 9.0 Compression Sleeve / Splice Automatic Copper Splices (Obsolete)

|   | 1  | 2  | 3                | 4   | 5                |             |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
|---|--|--|------------------|---|------------------|-------------|----------------|------------|------------------|-------------|---------|---------------|-----------|--|-----|-------------------|--------|-------------|-------|-----|----------|-----|-------------------|--------|------------|------|-----|----------|---------|-------------------|--------|-----------|-------|-----|----------|-----|-------------------|--------------------|------------|-------|-----|----------|------|-------------------|---------|------------|-------|-----|----------|------|-------------------|---------|-------------|-------|-----|----------|---------|--------------------|---------|--------------|-------|-----|----------|
| A   | <b>OBSOLETE-USE CRIMP SLEEVE</b>   |  |                  |   |                  |             |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
| B   |  |  |                  |   |                  |             |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
| C   | <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2">CAT. No</th> <th colspan="2">CONDUCTOR SIZE</th> <th rowspan="2">DIA. RANGE<br/>mm</th> <th rowspan="2">A<br/>mm</th> <th rowspan="2">B<br/>mm</th> <th rowspan="2">S.I. No</th> </tr> <tr> <th>METRIC</th> <th>IMPERIAL</th> </tr> </thead> <tbody> <tr> <td>R61</td> <td>10mm<sup>2</sup></td> <td>7/.048</td> <td>3.43 - 4.32</td> <td>13.34</td> <td>106</td> <td>14.77.33</td> </tr> <tr> <td>R41</td> <td>16mm<sup>2</sup></td> <td>7/.064</td> <td>4.20 - 5.2</td> <td>14.6</td> <td>109</td> <td>14.77.34</td> </tr> <tr> <td>GL-114M</td> <td>25mm<sup>2</sup></td> <td>7/.080</td> <td>5.8 - 6.6</td> <td>18.64</td> <td>137</td> <td>14.77.36</td> </tr> <tr> <td>R27</td> <td>35mm<sup>2</sup></td> <td>7/.097 &amp;<br/>7/.104</td> <td>6.53 - 7.6</td> <td>18.64</td> <td>137</td> <td>14.77.35</td> </tr> <tr> <td>R101</td> <td>50mm<sup>2</sup></td> <td>19/.064</td> <td>7.92 - 9.4</td> <td>23.82</td> <td>162</td> <td>14.77.38</td> </tr> <tr> <td>R207</td> <td>70mm<sup>2</sup></td> <td>19/.083</td> <td>9.4 - 10.90</td> <td>23.82</td> <td>162</td> <td>14.77.40</td> </tr> <tr> <td>GL-120M</td> <td>120mm<sup>2</sup></td> <td>19/.101</td> <td>12.65 - 14.2</td> <td>31.55</td> <td>203</td> <td>14.77.39</td> </tr> </tbody> </table> |  |                  |   |                  | CAT. No     | CONDUCTOR SIZE |            | DIA. RANGE<br>mm | A<br>mm     | B<br>mm | S.I. No       | METRIC    | IMPERIAL   | R61 | 10mm <sup>2</sup> | 7/.048 | 3.43 - 4.32 | 13.34 | 106 | 14.77.33 | R41 | 16mm <sup>2</sup> | 7/.064 | 4.20 - 5.2 | 14.6 | 109 | 14.77.34 | GL-114M | 25mm <sup>2</sup> | 7/.080 | 5.8 - 6.6 | 18.64 | 137 | 14.77.36 | R27 | 35mm <sup>2</sup> | 7/.097 &<br>7/.104 | 6.53 - 7.6 | 18.64 | 137 | 14.77.35 | R101 | 50mm <sup>2</sup> | 19/.064 | 7.92 - 9.4 | 23.82 | 162 | 14.77.38 | R207 | 70mm <sup>2</sup> | 19/.083 | 9.4 - 10.90 | 23.82 | 162 | 14.77.40 | GL-120M | 120mm <sup>2</sup> | 19/.101 | 12.65 - 14.2 | 31.55 | 203 | 14.77.39 |
| CAT. No   | CONDUCTOR SIZE   |  | DIA. RANGE<br>mm | A<br>mm   | B<br>mm          |             | S.I. No        |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
|   | METRIC   | IMPERIAL   |                  |   |                  |             |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
| R61   | 10mm <sup>2</sup>  | 7/.048   | 3.43 - 4.32      | 13.34   | 106              | 14.77.33    |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
| R41   | 16mm <sup>2</sup>  | 7/.064   | 4.20 - 5.2       | 14.6  | 109              | 14.77.34    |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
| GL-114M   | 25mm <sup>2</sup>  | 7/.080   | 5.8 - 6.6        | 18.64   | 137              | 14.77.36    |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
| R27   | 35mm <sup>2</sup>  | 7/.097 &<br>7/.104   | 6.53 - 7.6       | 18.64   | 137              | 14.77.35    |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
| R101  | 50mm <sup>2</sup>  | 19/.064  | 7.92 - 9.4       | 23.82   | 162              | 14.77.38    |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
| R207  | 70mm <sup>2</sup>  | 19/.083  | 9.4 - 10.90      | 23.82   | 162              | 14.77.40    |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
| GL-120M   | 120mm <sup>2</sup>   | 19/.101  | 12.65 - 14.2     | 31.55   | 203              | 14.77.39    |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
| E   | <p>APPLICATION</p> <ol style="list-style-type: none"> <li>1. THOROUGHLY WIRE BRUSH BOTH ENDS OF THE CONDUCTORS TO BE JOINED.</li> <li>2. PUSH THE CONDUCTOR, TURNING WITH THE LAY OF THE WIRE, INTO THE SPLICE UNTIL IT IS APPROXIMATELY IN THE CENTRE OF THE FITTING.</li> <li>3. PULL THE CONDUCTOR BACK UNTIL THE BRASS CONE GRIPS.</li> <li>4. ENSURE BOTH ENDS OF THE CONDUCTOR ARE FULLY ENGAGED BEFORE RELEASING CUM-A-LONGS.</li> </ol>  |  |                  |   |                  |             |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
| F   | <p>NOTES:</p> <ol style="list-style-type: none"> <li>1. AUTOMATIC SPLICE IS NOT TO BE USED ON NON TENSIONED CONDUCTORS. (SLACK SPAN)</li> <li>2. SPLICE NOT TO BE FITTED CLOSER THAN 2.5 METRES TO INSULATORS.</li> <li>3. SPLICE NOT TO BE INSTALLED AT OR NEAR MID SPAN.</li> </ol>  |  |                  |   |                  |             |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
| G   |  |  |                  |   |                  |             |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
| H   |  |  |                  |   |                  |             |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
| A<br>L<br>T<br>E<br>R<br>A<br>T<br>I<br>O<br>N<br>S | O<br>R<br>I<br>G<br>I<br>N<br>A<br>L<br>I<br>S<br>S<br>U<br>E  |  |                  | © Tasmanian Networks PTY. LTD.<br>trading as TasNetworks<br>ABN: 24 167 357 299 |                  |             |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
|   |  | <table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <td style="width: 50%;">DRAWN</td> <td style="width: 50%;">ES PRO-SOLUTIONS</td> </tr> <tr> <td>DESIGNED BY</td> <td>ELECTRO</td> </tr> <tr> <td>CHECKED BY</td> <td>H.WESTBURY</td> </tr> <tr> <td>APPROVED BY</td> <td>-</td> </tr> <tr> <td>DATE APPROVED</td> <td>15/FEB/19</td> </tr> </table> |                  | DRAWN   | ES PRO-SOLUTIONS | DESIGNED BY | ELECTRO        | CHECKED BY | H.WESTBURY       | APPROVED BY | -       | DATE APPROVED | 15/FEB/19 | NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
| DRAWN   | ES PRO-SOLUTIONS   |  |                  |   |                  |             |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
| DESIGNED BY   | ELECTRO  |  |                  |   |                  |             |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
| CHECKED BY  | H.WESTBURY   |  |                  |   |                  |             |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
| APPROVED BY   | -  |  |                  |   |                  |             |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
| DATE APPROVED                                       | 15/FEB/19  |  |                  |   |                  |             |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
|   |  | TITLE<br>COMPRESSION SLEEVES / SPLICES<br>AUTOMATIC COPPER SPLICES   |                  | SCALE<br>NTS  |                  |             |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |
|   |  | D - OHC - J010 - SD - 001  |                  | REVISION<br>A   |                  |             |                |            |                  |             |         |               |           |  |     |                   |        |             |       |     |          |     |                   |        |            |      |     |          |         |                   |        |           |       |     |          |     |                   |                    |            |       |     |          |      |                   |         |            |       |     |          |      |                   |         |             |       |     |          |         |                    |         |              |       |     |          |

DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED



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# SECTION 10 – POLES



# 10 SECTION 10 – POLES

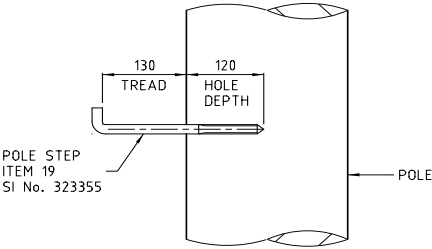
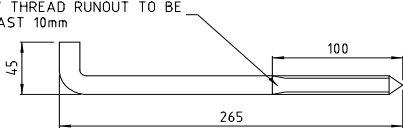
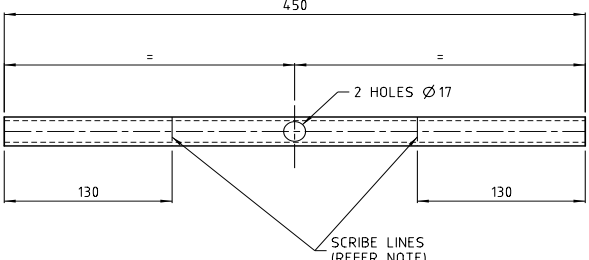

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    10.1 Wood Pole Reinstatement ELTEK RFD Type Stakes (Obsolete) ..... 4  
    10.2 Wood Pole Steps (Obsolete for Reference Only)..... 5

### 10.1 Wood Pole Reinstatement ELTEK RFD Type Stakes (Obsolete)

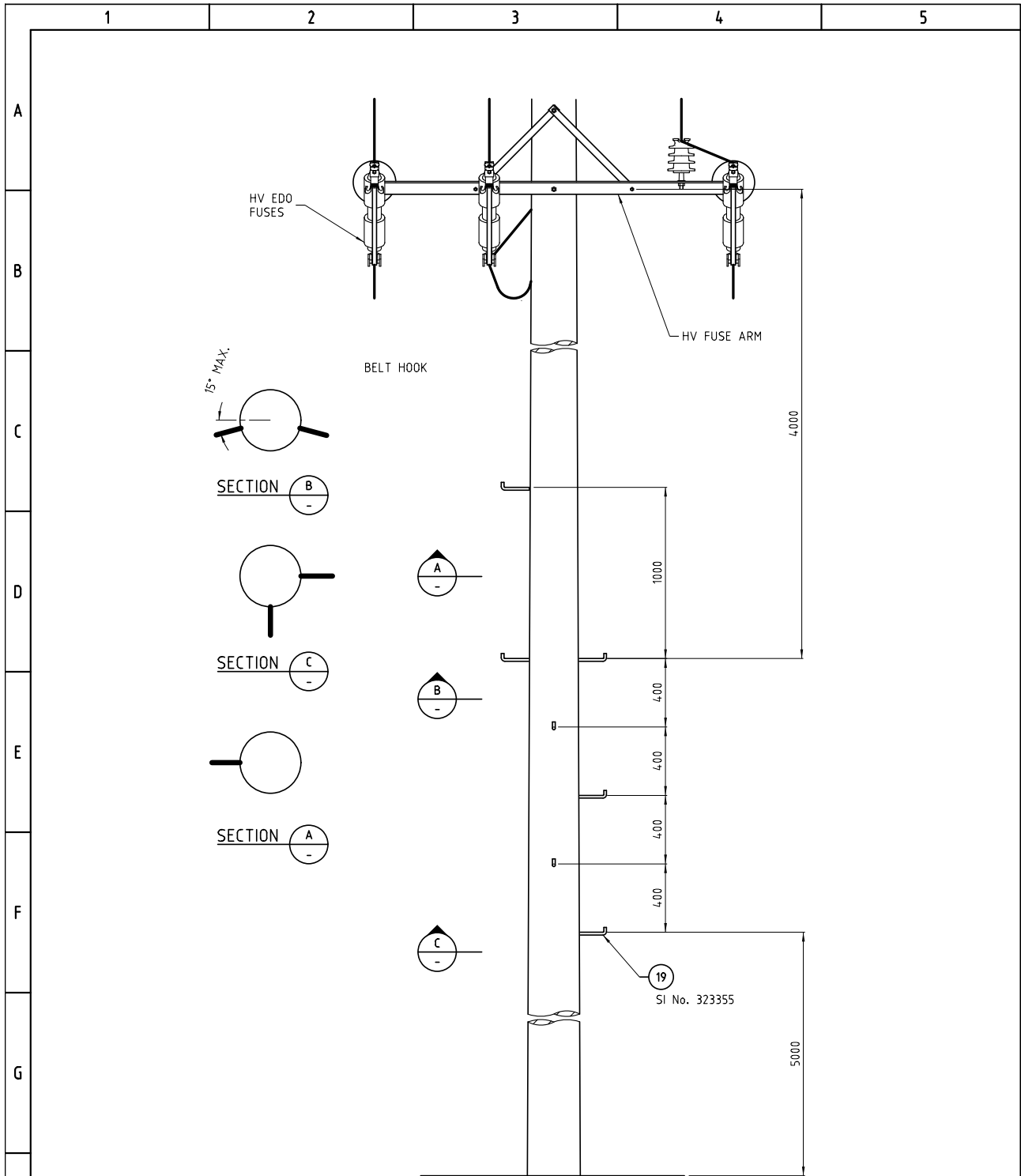
|                  | 1  | 2  | 3                         | 4   | 5   |                  |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
|------------------|--|--|---------------------------|---|---|------------------|-----------------|------------|-------------|--|----------------------|-----------|--|-----------|---|--------------|--------------|--------------------|--------|--------|--------|--------|----|--------|----------|--------|--------|------------|---|--------|--------|------------|------------|------------|------|--------|-----|-----|--|--|
| A                | STAKE SELECTION TABLE FOR P.I. WOOD POLES  |  |                           |   |   |                  |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
| B                | STAKE CODE AND QUANTITY  |  |                           |   |   |                  |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
| C                | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">POLE RATING (kN)</th> <th colspan="5">POLE LENGTH (m)</th> </tr> <tr> <th>8.0</th> <th>9.0</th> <th>10.5</th> <th>12.0</th> <th>13.5</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>RFD600 (SERV POLE)</td> <td>RFD680</td> <td>RFD680</td> <td>RFD680</td> <td>RFD880</td> </tr> <tr> <td>6</td> <td>RFD680</td> <td>RFD680</td> <td>RFD880</td> <td>RFD880</td> <td>2 x RFD680</td> </tr> <tr> <td>8</td> <td>RFD880</td> <td>RFD880</td> <td>2 x RFD680</td> <td>2 x RFD680</td> <td>2 x RFD680</td> </tr> <tr> <td>10</td> <td>RFD880</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> |  |                           |   |   | POLE RATING (kN) | POLE LENGTH (m) |            |             |  |                      | 8.0       | 9.0  | 10.5      | 12.0  | 13.5         | 4            | RFD600 (SERV POLE) | RFD680 | RFD680 | RFD680 | RFD880 | 6  | RFD680 | RFD680   | RFD880 | RFD880 | 2 x RFD680 | 8 | RFD880 | RFD880 | 2 x RFD680 | 2 x RFD680 | 2 x RFD680 | 10   | RFD880 |     |     |  |  |
| POLE RATING (kN) | POLE LENGTH (m)  |  |                           |   |   |                  |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
|                  | 8.0  | 9.0  | 10.5                      | 12.0  | 13.5  |                  |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
| 4                | RFD600 (SERV POLE)   | RFD680   | RFD680                    | RFD680  | RFD880                                      |                  |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
| 6                | RFD680   | RFD680   | RFD880                    | RFD880  | 2 x RFD680                                  |                  |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
| 8                | RFD880   | RFD880   | 2 x RFD680                | 2 x RFD680  | 2 x RFD680                                  |                  |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
| 10               | RFD880   |  |                           |   |   |                  |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
| D                | <p>THE REINFORCING STAKES WHEN APPLIED IN ACCORDANCE WITH THE ABOVE TABLE TO THE NOMINATED POLES, WILL REINSTATE THAT POLE TO ITS FULL RATED STRENGTH. THE FOOTING STRENGTH WILL BE NO GREATER THAN THAT DETAILED IN THE TABLE ON DRAWING D-0H1-0224-SD-001 FOR NEW POLES UNDER VARIOUS SOIL CONDITIONS.</p>   |  |                           |   |   |                  |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
| E                | STAKE DETAILS  |  |                           |   |   |                  |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
| F                | <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">S.I. No</th> <th rowspan="2">CODE</th> <th colspan="3">DIMENSIONS</th> <th colspan="2">FAILING MOMENT (kNm)</th> </tr> <tr> <th>WIDTH mm</th> <th>LENGTH mm</th> <th>THICKNESS mm</th> <th>SINGLE STAKE</th> <th>DOUBLE STAKE</th> </tr> </thead> <tbody> <tr> <td>32.54.30</td> <td>RFD600</td> <td>275</td> <td>3000</td> <td>6</td> <td>33</td> <td>80</td> </tr> <tr> <td>32.54.31</td> <td>RFD680</td> <td>300</td> <td>3000</td> <td>6</td> <td>66</td> <td>147</td> </tr> <tr> <td>32.54.32</td> <td>RFD880</td> <td>300</td> <td>3000</td> <td>8</td> <td>100</td> <td>224</td> </tr> </tbody> </table> |  |                           |   |   | S.I. No          | CODE            | DIMENSIONS |             |  | FAILING MOMENT (kNm) |           | WIDTH mm   | LENGTH mm | THICKNESS mm  | SINGLE STAKE | DOUBLE STAKE | 32.54.30           | RFD600 | 275    | 3000   | 6      | 33 | 80     | 32.54.31 | RFD680 | 300    | 3000       | 6 | 66     | 147    | 32.54.32   | RFD880     | 300        | 3000 | 8      | 100 | 224 |  |  |
| S.I. No          | CODE   | DIMENSIONS   |                           |   | FAILING MOMENT (kNm)                        |                  |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
|                  |  | WIDTH mm   | LENGTH mm                 | THICKNESS mm  | SINGLE STAKE                                | DOUBLE STAKE     |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
| 32.54.30         | RFD600   | 275  | 3000                      | 6   | 33  | 80               |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
| 32.54.31         | RFD680   | 300  | 3000                      | 6   | 66  | 147              |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
| 32.54.32         | RFD880   | 300  | 3000                      | 8   | 100   | 224              |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
| G                | OBSOLETE-FOR REFERENCE ONLY  |  |                           |   |   |                  |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
| H                |  |  |                           |   |   |                  |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
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|                  |  | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="font-size: 8px;">DRAWN BY</td> <td style="font-size: 8px;">ES PRO-SOLUTIONS</td> </tr> <tr> <td style="font-size: 8px;">DESIGNED BY</td> <td style="font-size: 8px;">ELECTRO</td> </tr> <tr> <td style="font-size: 8px;">CHECKED BY</td> <td style="font-size: 8px;">H.WESTBURY</td> </tr> <tr> <td style="font-size: 8px;">APPROVED BY</td> <td></td> </tr> <tr> <td style="font-size: 8px;">DATE APPROVED</td> <td style="font-size: 8px;">16/NOV/18</td> </tr> </table> | DRAWN BY                  | ES PRO-SOLUTIONS  | DESIGNED BY                                 | ELECTRO          | CHECKED BY      | H.WESTBURY | APPROVED BY |  | DATE APPROVED        | 16/NOV/18 | NO PART OF THIS DRAWING MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM IN ANY FORM, OR TRANSMITTED BY ANY MEANS WITHOUT THE PRIOR PERMISSION OF TASNETWORKS |           | TITLE<br>WOOD POLE REINSTATEMENT BY STAKING<br>ELTEK RFD TYPE STAKES-OBSOLETE |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
| DRAWN BY         | ES PRO-SOLUTIONS   |  |                           |   |   |                  |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
| DESIGNED BY      | ELECTRO  |  |                           |   |   |                  |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
| CHECKED BY       | H.WESTBURY   |  |                           |   |   |                  |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
| APPROVED BY      |  |  |                           |   |   |                  |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
| DATE APPROVED    | 16/NOV/18  |  |                           |   |   |                  |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |
|                  |  |  | D - OHC - K015 - SD - 001 |   | SCALE<br>NTS<br><br>A4<br><br>REVISION<br>A |                  |                 |            |             |  |                      |           |  |           |   |              |              |                    |        |        |        |        |    |        |          |        |        |            |   |        |        |            |            |            |      |        |     |     |  |  |

## 10.2 Wood Pole Steps (Obsolete for Reference Only)

### 10.2.1 Pole Steps


|                |   |                  |   |   |  |
|----------------|---|------------------|---|---|--|
|                | 1   | 2                | 3   | 4 | 5  |
| A              | <p><b>PROCEDURE FOR STEP INSTALLATION</b></p> <p>DRILL A LEVEL, <math>\varnothing 14</math> (<math>\frac{1}{2}</math>" ) HOLE 120mm INTO POLE. APPLY GREASE TO THREAD AND SCREW IN WITH SPANNER, LEAVING 130mm OF TREAD PROTRUDING. TO AVOID OVER STRESSING THREAD, KEEP SCREWING TORQUE UNDER 40Nm (30 ft lbs) DO NOT HAMMER OR BEND THE POLE STEP. ON COMPLETION, REMOVE SURPLUS GREASE FROM POLE AND STEP.</p> |                  |   |   |  |
| B              |    |                  |   |   |  |
| C              | <p><b>INSTALLING A POLE STEP IN A PI WOOD POLE</b></p>  |                  |   |   |  |
| D              | <p>M16 COACH SCREW THREAD RUNOUT TO BE GRADUAL OVER LAST 10mm</p>   |                  |   |   |  |
| E              | <p><b>MARK 55 - POLE STEP</b><br/>                 MATERIAL: 16 ROUND BAR TO AS/NZS 3679.1-300<br/>                 S.I. 32.33.55</p>   |                  |   |   |  |
| F              |   |                  |   |   |  |
| G              | <p><b>POLE STEP SPANNER</b><br/>                 MATERIAL: 25x25x3.2 RHS<br/>                 NOTE: HEAVILY SCRIBE SURFACE OF RHS AT LOCATIONS SHOWN AND USE AS TREAD LENGTH GAUGE. REMOVE SHARP INNER AND OUTER EDGES AT ENDS OF RHS.</p>  |                  |   |   |  |
| H              | <p><b>FOR REFERENCE ONLY</b><br/> <b>POLE STEPS NOW CONSIDERED OBSOLETE</b></p>   |                  |   |   |  |
| ALTERNATIONS   | DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED   |                  |   |   |  |
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|                | DRAWN   | CS PRO-SOLUTIONS | TITLE   |   | SCALE  |
|                | DESIGNED BY   | ELECTRO          | POLE STEPS (OBSOLETE)   |   | NTS  |
|                | CHECKED BY  | H.WESTBURY       | D - OHC - K010 - SD - 001   |   | A4   |
|                | APPROVED BY   | -                |   |   | REVISION   |
|                | DATE APPROVED   | 19/FEB/19        |   |   | A  |

10.2.2 Pole Steps on Operating Pole (Obsolete for Reference Only)



FOR REFERENCE ONLY  
POLE STEPS NOW CONSIDERED OBSOLETE

DIMENSIONS ARE IN MILLIMETRES  
UNLESS OTHERWISE STATED

|               |                |   |  |   |  |   |  |             |  |
|---------------|----------------|---|--|---|--|---|--|-------------|--|
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|               |                |   |  | TITLE<br>POLE STEPS<br>ON OPERATING POLE<br>(OBSOLETE)                          |  | SCALE<br>NTS  |  |             |  |
|               |                | DRAWN   |  | CS PRO-SOLUTIONS  |  |   |  | SCALE<br>A4 |  |
|               |                | DESIGNED BY   |  | ELECTRO   |  |   |  |             |  |
|               |                | CHECKED BY  |  | H.WESTBURY  |  |   |  |             |  |
| APPROVED BY   |                | -   |  |   |  |   |  |             |  |
| DATE APPROVED |                | 19/FEB/19   |  | D - OHC - K011 - SD - 001   |  | REVISION<br>A   |  |             |  |