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# SECTION 2 – LV CONSTRUCTIONS

VERSION 2.0



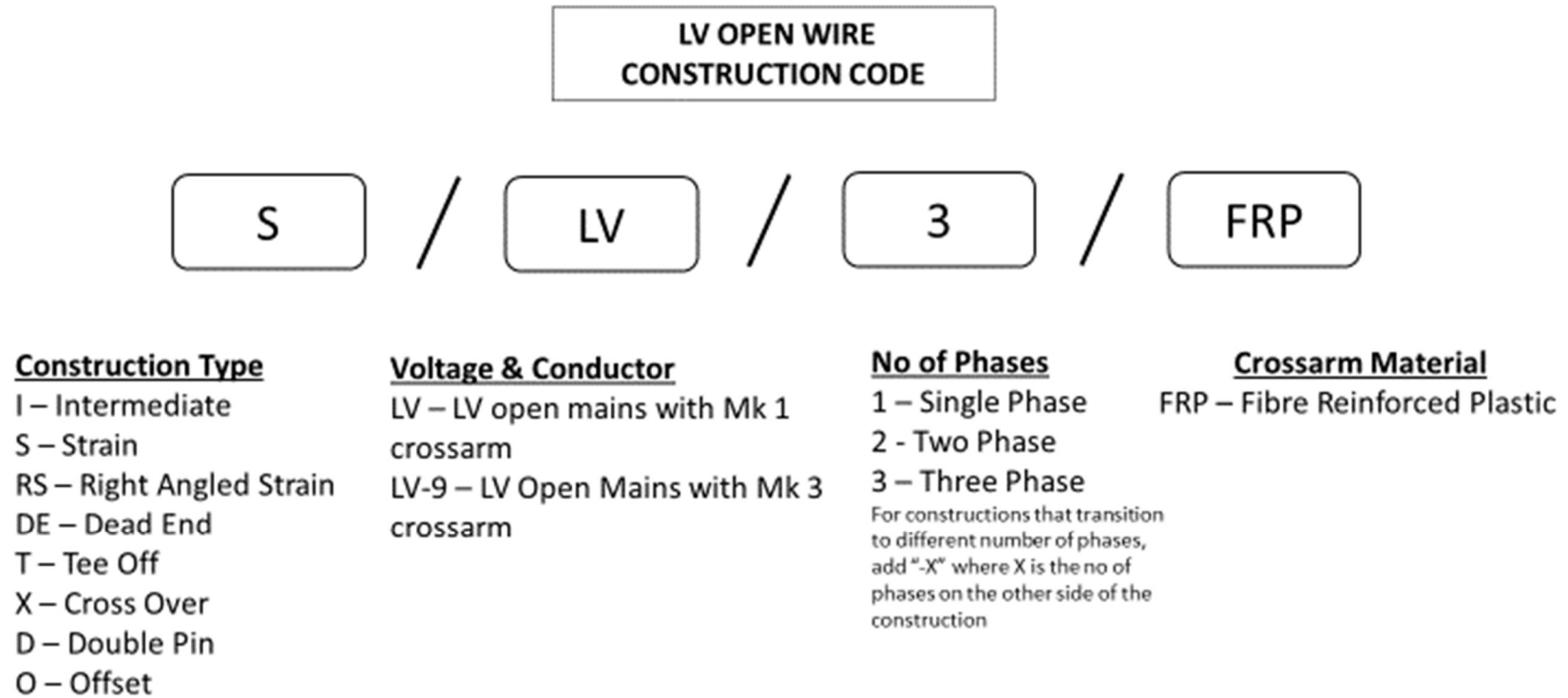
## 2 SECTION 2 – LV CONSTRUCTIONS

2 SECTION 2 – LV CONSTRUCTIONS.....	3
2.1 LV Open Wire Constructions .....	4
2.1 General Notes for ABC Constructions .....	5
2.2 LV ABC Intermediate (Suspension).....	6
2.3 LV ABC Double Suspension (Angle) .....	8
2.4 LV ABC Dead End.....	10
2.5 LV ABC Strain.....	12
2.6 LV ABC Right Angle Strain.....	14
2.7 LV ABC Tee Off .....	16
2.8 LV ABC Cross Over At Pole.....	18
2.9 LV ABC Parallel Circuits Intermediate.....	20
2.10 LV ABC Parallel Circuits – Dead End Strain Arrangements .....	22
2.11 LV ABC Transition Strain FRP Crossarm (ABC to Open Wire) .....	23
2.12 Intermediate Offset LV Open Wire FRP Crossarm.....	30
2.13 Dead End LV Open Wire FRP Crossarm .....	32
2.14 Strain LV Open Wire FRP Crossarm .....	34
2.15 Right Angle Strain LV Open Wire FRP Crossarm.....	36
2.16 Tee Off LV Open Wire FRP Crossarm.....	38
2.17 Cross Over LV Open Wire FRP Crossarm .....	40


## 2.1 LV Open Wire Constructions

### LV Open Wire Construction Codes

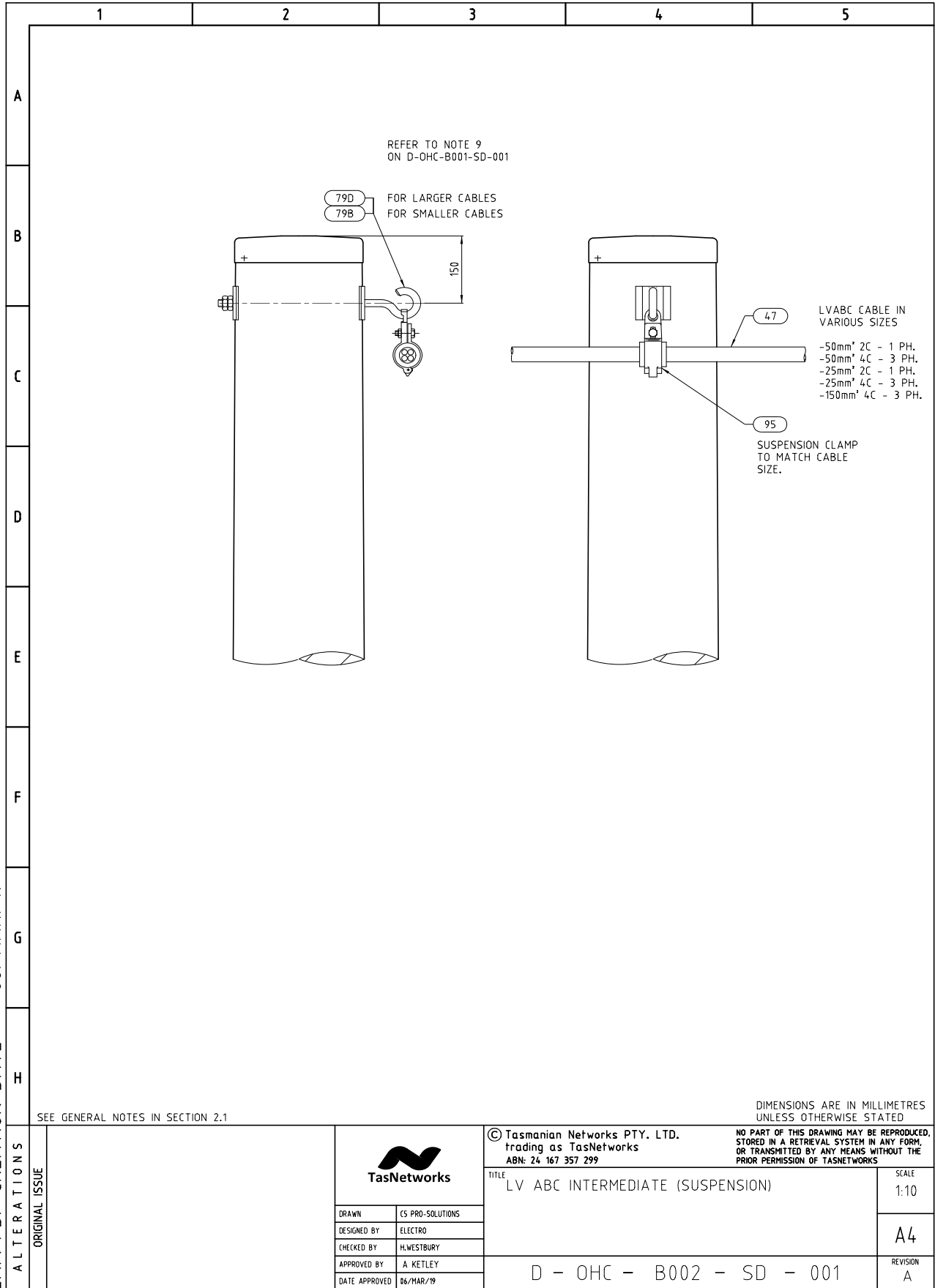
The LV Open wire constructions detailed following are described by the following coding system.




## 2.1 General Notes for ABC Constructions

		1	2	3	4	5
ALTERATIONS	ORIGINAL ISSUE	GENERAL NOTES - LVABC				
	A	1. LV FUSE/ISOLATORS (ITEM 64A) ON TYPE S/LVABC-BARE Cu OR AL CONSTRUCTION ARE REQUIRED WHEN LV FUSES ARE INSTALLED AT THE TRANSFORMER.				
	B	2. WHEN APPLYING THE INSULATION PIERCING CONNECTORS ENSURE THAT THE PLASTIC HEAD SHEARS.				
	C	3. CONDUCTOR ENDS OF THE CABLE TO BE SEALED AGAINST MOISTURE.				
	D	4. SPIRAL SPRING WASHERS ARE NOT TO BE FITTED TO STEEL/CONCRETE POLES.				
	E	5. WHEN FITTING TWO BOLT CONNECTORS REPEATEDLY TIGHTEN EACH BOLT APPROXIMATELY HALF A TURN UNTIL THE PLASTIC HEADS SHEAR.				
	F	6. ENSURE THAT THE CABLE DOES NOT COME INTO CONTACT WITH THE POLE.				
	G	7. AVOID CONTACT OF CABLE CORES WITH STEEL STRAPS OF STRAIN CLAMP. ON HV S&C POLES SLEEVE STEEL STRAP WITH 3M MASTIC TAPE S.I. No 15.83.88 OR HEAT SHRINK TUBING S.I. No 16.83.30.				
	H	8. INSTALL LV OVERHEAD SERVICES ABOVE LV A.B.C. AND MAINTAIN 100mm MINIMUM CLEARANCE BETWEEN SERVICE CABLE AND LV A.B.C.				
		9. LOCATE OPEN EYE BOLT 300mm BELOW POLE TOP WHERE STRAP AND RATCHET TENSIONER IS USED DURING STRINGING OPERATION.				
		10. LOCKNUTS TO BE INSTALLED ON ALL BOLTS PASSING THROUGH POLE.				
	11. LARGER CABLES ARE CONSIDERED TO BE 95MM 4c & 150MM 4c. ALL OTHER SIZES ARE TO BE CONSIDERED SMALLER CABLES. OLDER INSTALLATIONS WITH LARGER CABLES AND M16 HOOK BOLTS HAVE A LESSER LOAD CAPACITY.					
		DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED				
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				TITLE GENERAL NOTES FOR LV ABC POLE TOP ARRANGEMENT		SCALE NTS
		DRAWN CS PRO-SOLUTIONS	DESIGNED BY ELECTRO			A4
		CHECKED BY H.WESTBURY	APPROVED BY A KETLEY			REVISION A
		DATE APPROVED 05/MAR/19	D - OHC - B001 - SD - 001			

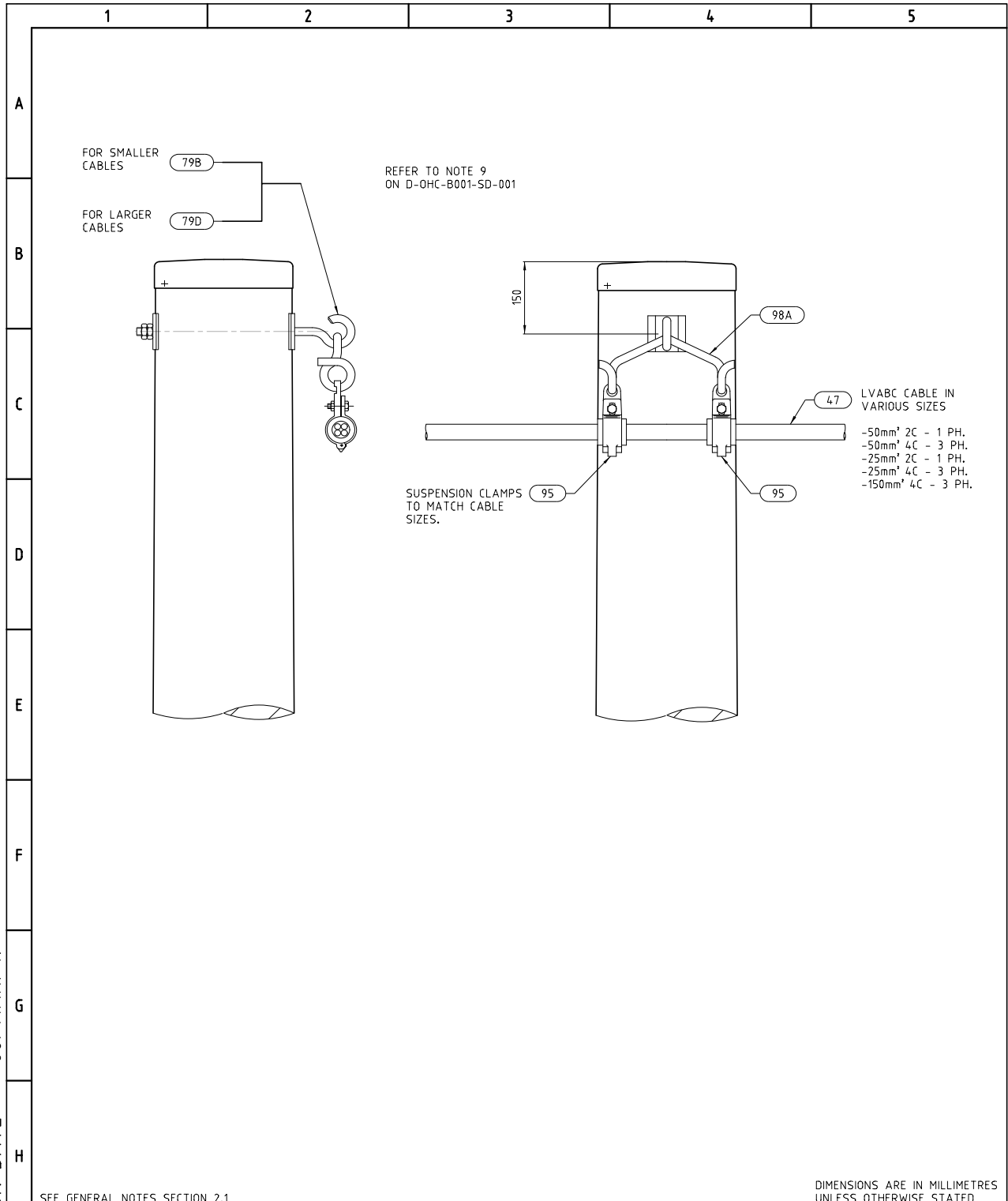
## 2.2 LV ABC Intermediate (Suspension)



LV ABC Intermediate (Suspension) – Materials List

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				TITLE LV ABC INTERMEDIATE (SUSPENSION) MATERIAL LIST		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																																																																												
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### 2.3 LV ABC Double Suspension (Angle)




SEE GENERAL NOTES SECTION 2.1

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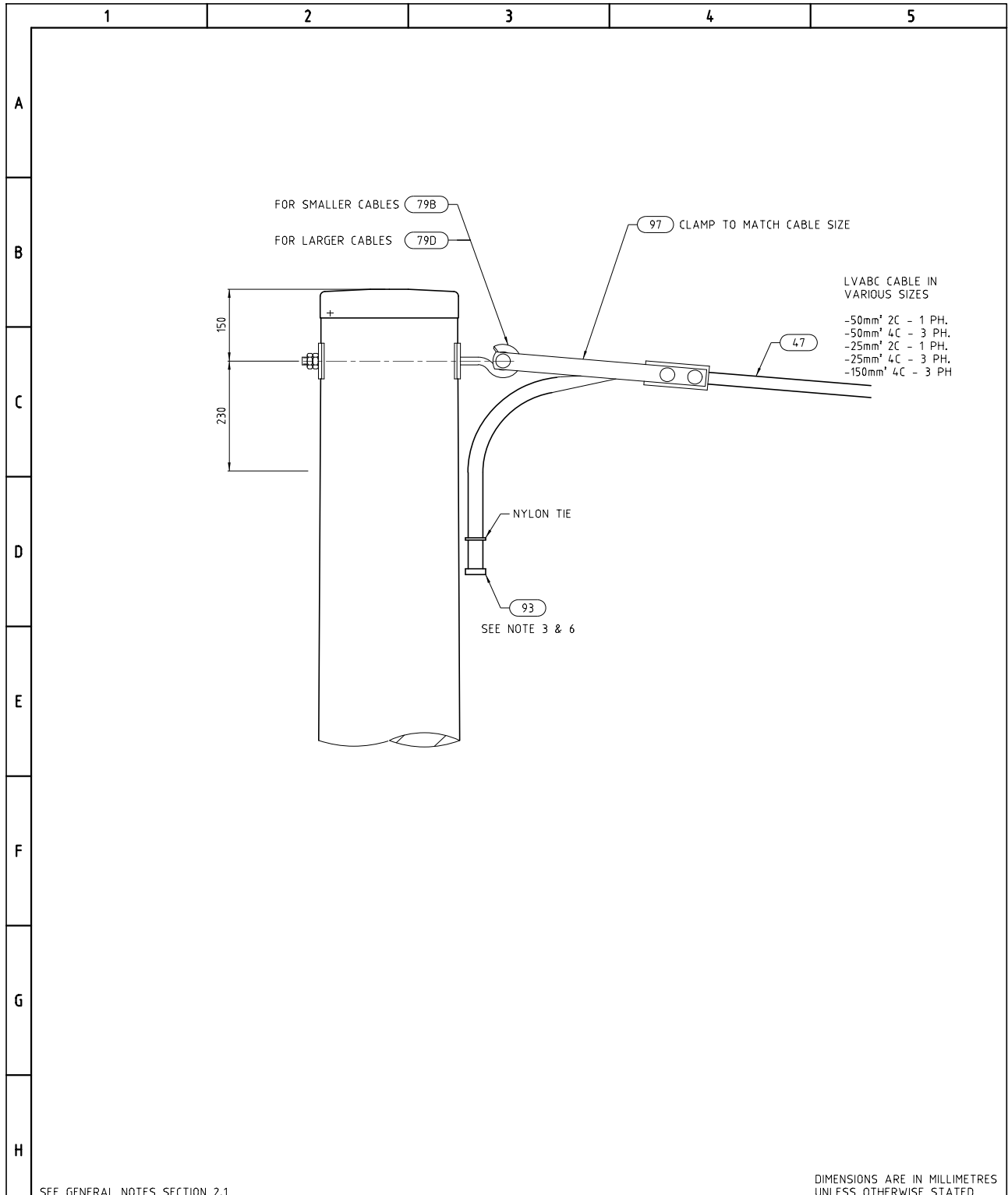
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				TITLE LV ABC DOUBLE SUSPENSION (ANGLE)		SCALE 1:10			
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		DRAWN	CS PRO-SOLUTIONS						
		DESIGNED BY	ELECTRO						
		CHECKED BY	H.WESTBURY						
		APPROVED BY	A. KETLEY						
		DATE APPROVED	06/MAR/19						



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### 2.4 LV ABC Dead End



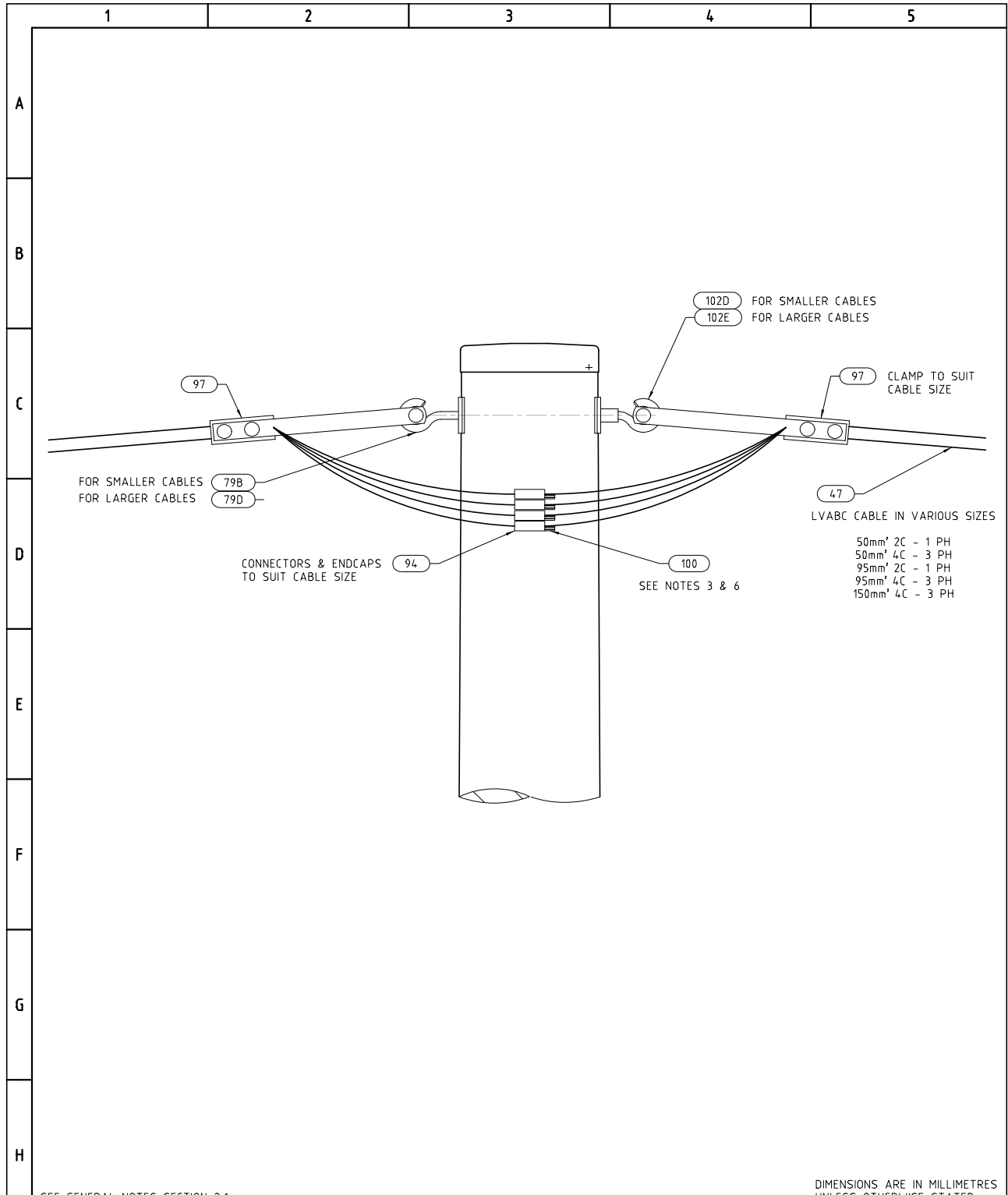
SEE GENERAL NOTES SECTION 2.1

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		TITLE LV ABC DEAD END						SCALE 1:10
		DRAWN BY CS PRO-SOLUTIONS						A4
		DESIGNED BY ELECTRO						
		CHECKED BY H.WESTBURY						
APPROVED BY A. KETLEY								
DATE APPROVED 03/APR/19						REVISION A		
D - OHC - B004 - SD - 001								



### 2.5 LV ABC Strain




SEE GENERAL NOTES SECTION 2.1

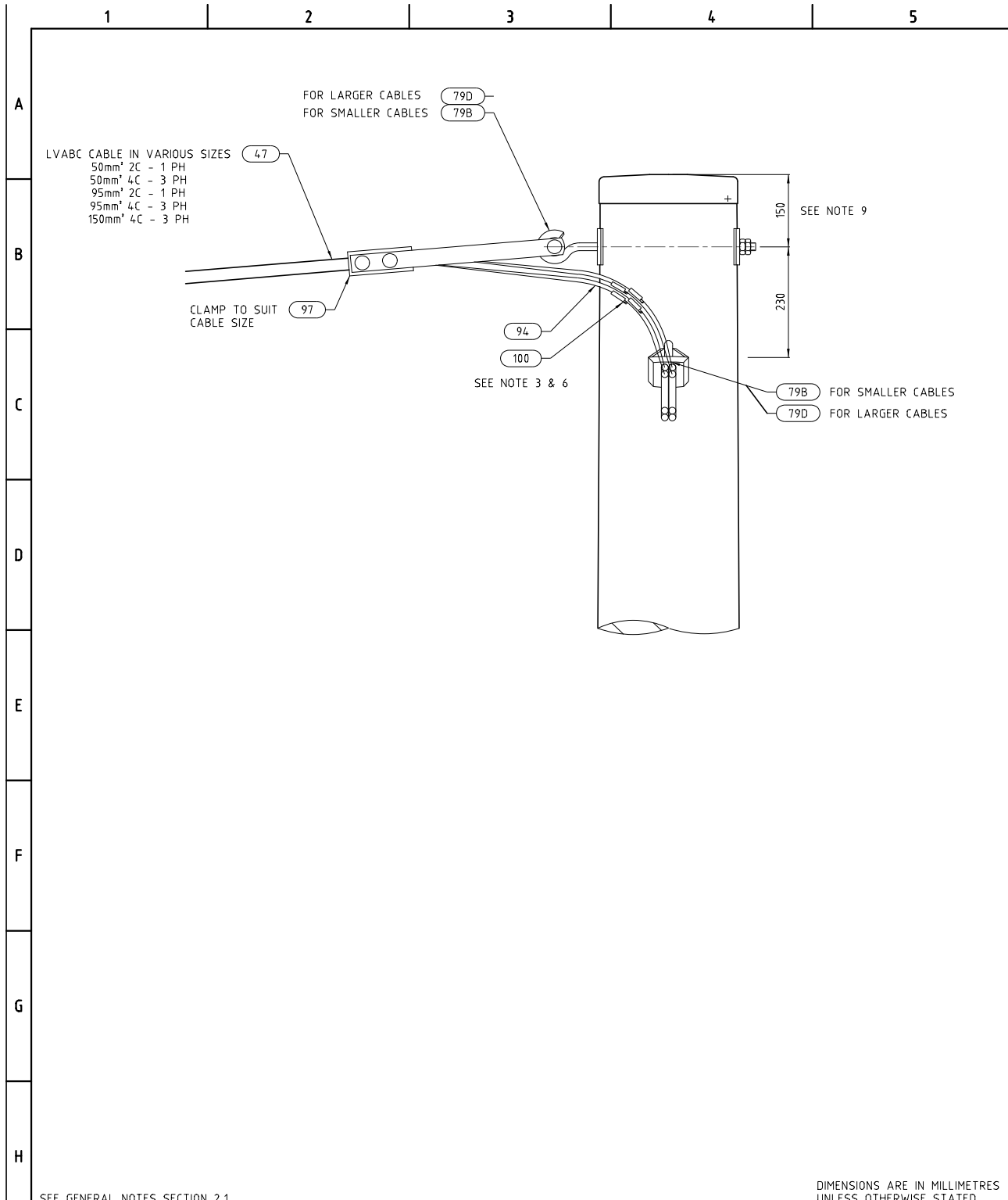
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		CHECKED BY H.WESTBURY		APPROVED BY A. KETLEY				
		DATE APPROVED 03/APR/19		D - OHC - B005 - SD - 001				REVISION A

LV ABC Strain – Materials List

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A									
B	<b>Unit Assembly</b>	<b>Store Type</b>	<b>Item Ref</b>	<b>Stock Item</b>	<b>Stock Item Description</b>	<b>Quantity</b>			
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			94C	145620	CONNECTOR,IPC LV ABC	2			
			97B	145603	CLAMP,TENSION 2 X 50MM2 - 2 X 95MM2 ABC	2			
			98F	145646	WEAK LINK,LV ABC 10MM X 100MM ABCWL-8	2			
			100D	168017	END CAP,HEAT SHRINK 17-8MM CABLE RANGE	2			
			102D	325619	HOOK-NUT,OPEN TYPE T/S M16 BOLT HOOK	1			
D	S/LVABC.50/3/PLM	S	79B	325631	EYE-BOLT,OPEN M16 X 350MM FIXED WASHER	1			
			94C	145620	CONNECTOR,IPC LV ABC	4			
			97A	145602	CLAMP,TENSION 4 X 50MM2 ABC	2			
			100D	168017	END CAP,HEAT SHRINK 17-8MM CABLE RANGE	4			
			102D	325619	HOOK-NUT,OPEN TYPE T/S M16 BOLT HOOK	1			
E	S/LVABC.95/1/PLM	S	79B	325631	EYE-BOLT,OPEN M16 X 350MM FIXED WASHER	1			
			94C	145620	CONNECTOR,IPC LV ABC	2			
			97B	145603	CLAMP,TENSION 2 X 50MM2 - 2 X 95MM2 ABC	2			
			100D	168017	END CAP,HEAT SHRINK 17-8MM CABLE RANGE	2			
			102D	325619	HOOK-NUT,OPEN TYPE T/S M16 BOLT HOOK	1			
F	S/LVABC.95/3/PLM	S	79D	325640	EYE-BOLT,OPEN M20 X 350MM FIXED WASHER	1			
			94C	145620	CONNECTOR,IPC LV ABC	4			
			97A	145602	CLAMP,TENSION 4 X 50MM2 ABC	2			
			100D	168017	END CAP,HEAT SHRINK 17-8MM CABLE RANGE	4			
			102E	325637	Eye, nut open M20	1			
G	S/LVABC.150/3/PLM	S	79D	325640	EYE-BOLT,OPEN M20 X 350MM FIXED WASHER	1			
			94J	145657	CONNECTOR,IPC LV ABC	4			
			97G	145607	CLAMP,TENSION 4 X 50MM2 ABC	2			
			100E	168019	END CAP,HEAT SHRINK 17-8MM CABLE RANGE	4			
			102E	325637	Eye, nut open M20	1			
H									
ALTERATIONS	ORIGINAL ISSUE				© Tasmanian Networks PTY. LTD. trading as TasNetworks 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 LV ABC STRAIN MATERIAL LIST			SCALE NTS	
					DRAWN	ES PRO-SOLUTIONS		D - OHC - B005 - SD - 002	A4
					DESIGNED BY	ELECTRO			REVISION
					CHECKED BY	H.WESTBURY			
APPROVED BY	A KETLEY								
DATE APPROVED	03/APR/19								

### 2.6 LV ABC Right Angle Strain




SEE GENERAL NOTES SECTION 2.1

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		TITLE LV ABC RIGHT ANGLE STRAIN						SCALE 1:10
		DRAWN C5 PRO-SOLUTIONS						A4
		DESIGNED BY ELECTRO						
		CHECKED BY H.WESTBURY						
APPROVED BY A KETLEY						REVISION A		
DATE APPROVED 03/APR/19						D - OHC - B006 - SD - 001		

LV ABC Right Angle Strain – Materials List

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TITLE  
LV ABC RIGHT ANGLE STRAIN  
MATERIAL LIST

SCALE  
NTS

DRAWN  
DESIGNED BY  
CHECKED BY  
APPROVED BY  
DATE APPROVED

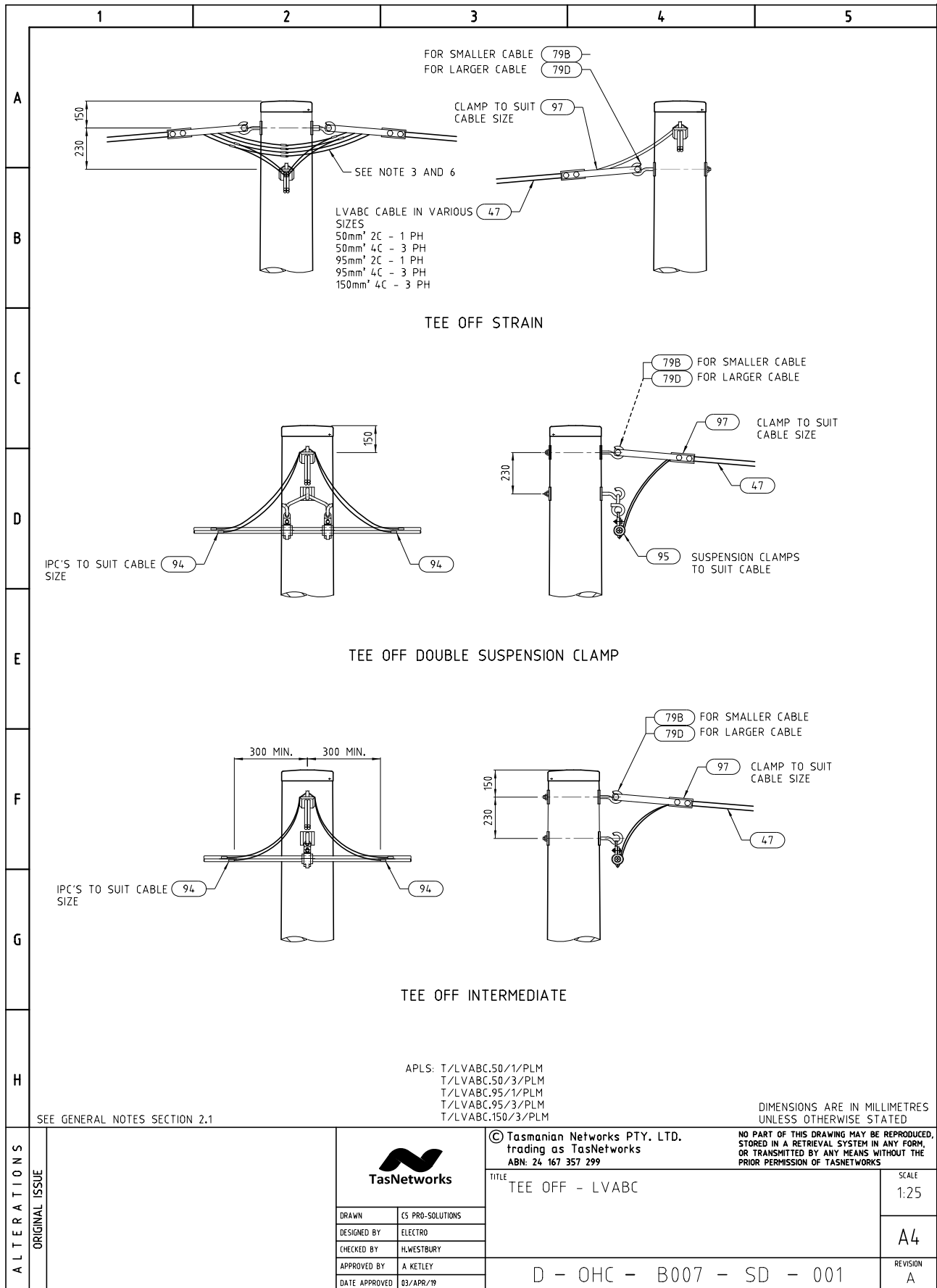
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ELECTRO  
H.WESTBURY  
A KETLEY  
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### 2.7 LV ABC Tee Off

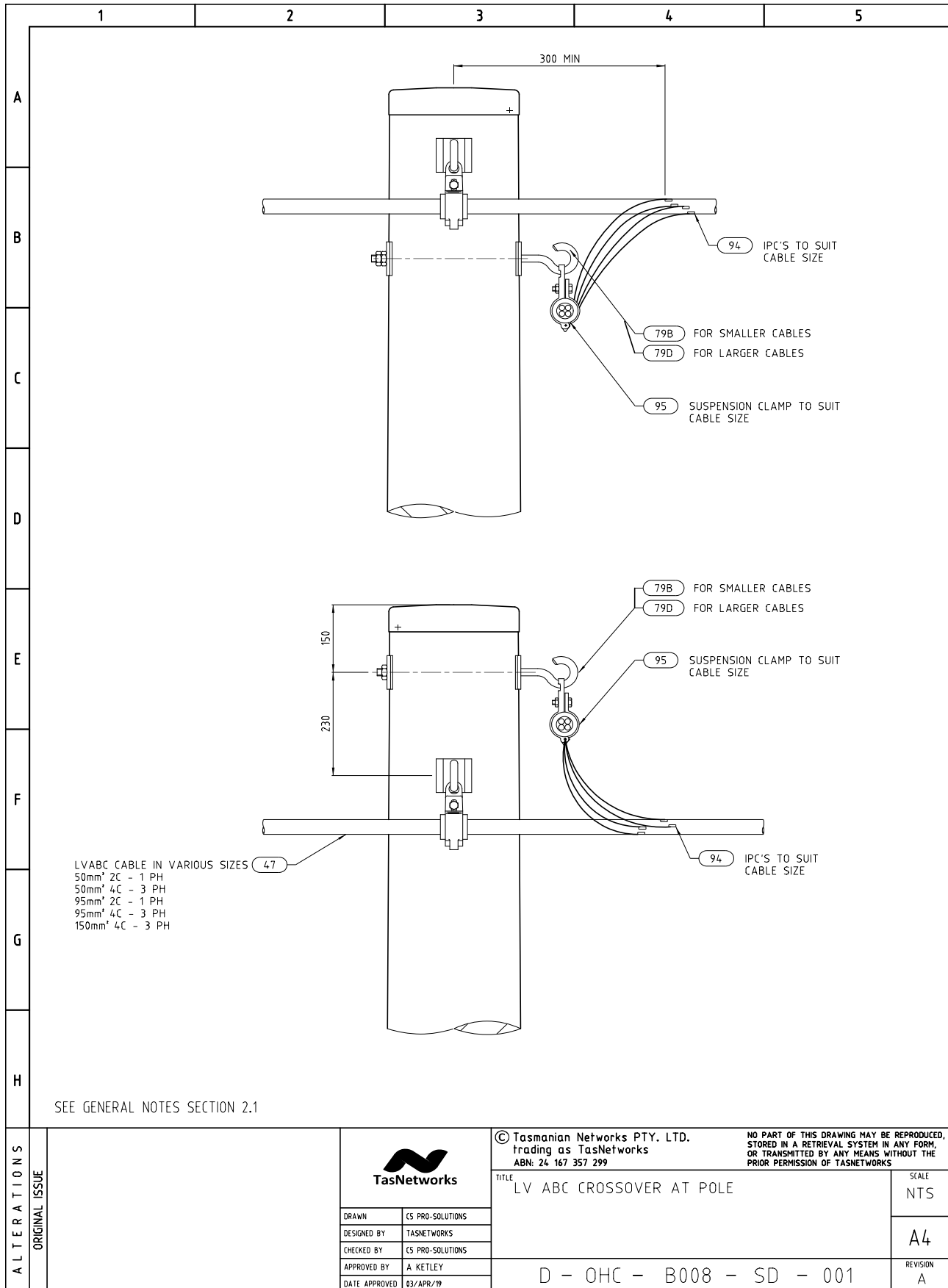





LV ABC Tee Off - Materials List

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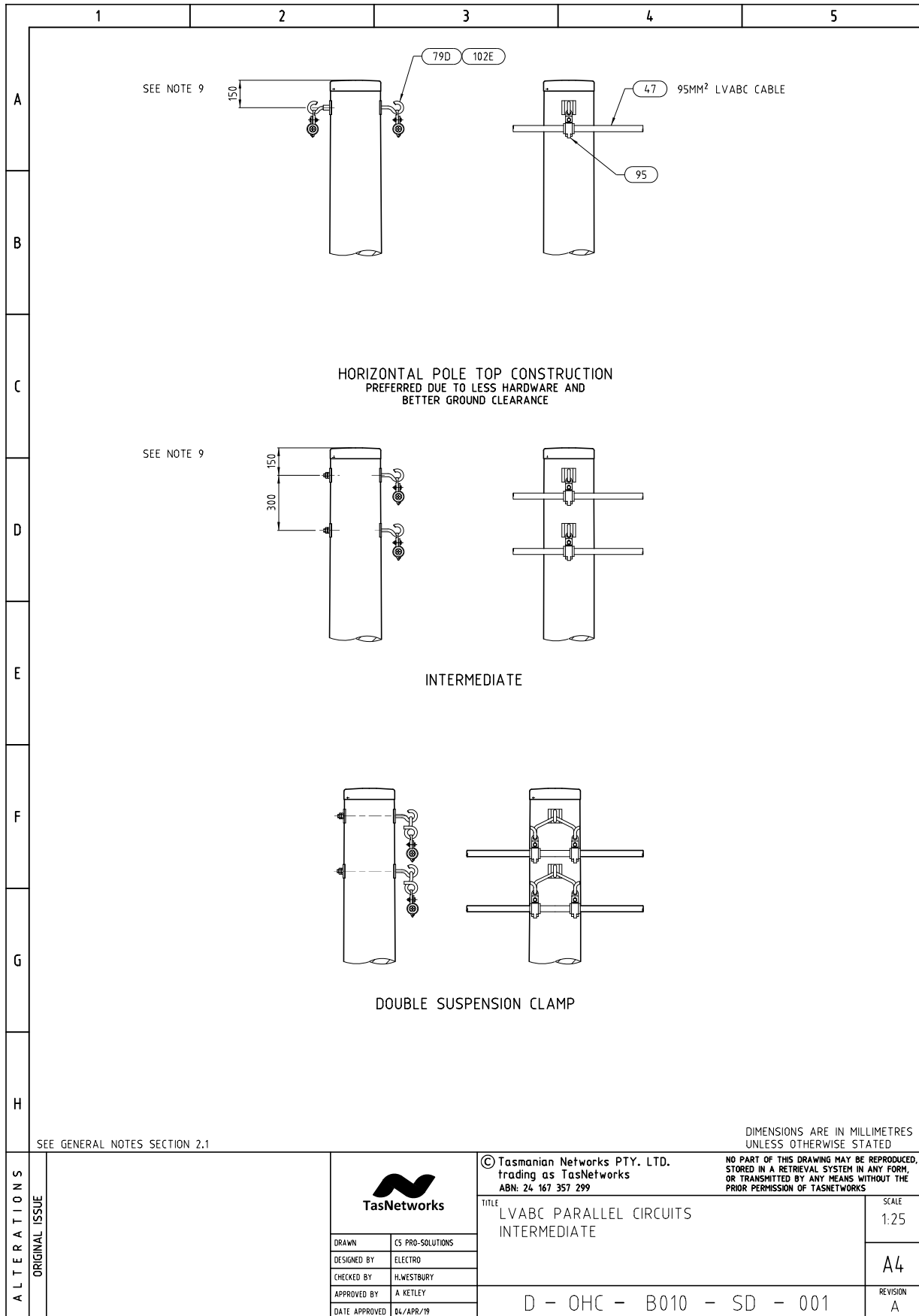
## 2.8 LV ABC Cross Over At Pole




LV ABC Cross Over At Pole – Materials List

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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="3">XLVABC.50/1</td> <td rowspan="3">S</td> <td>79B</td> <td>325631</td> <td>EYE-BOLT,OPEN M16 X 350MM FIXED WASHER</td> <td>1</td> </tr> <tr> <td>94C</td> <td>145620</td> <td>CONNECTOR,IPC LV ABC</td> <td>4</td> </tr> <tr> <td>95B</td> <td>145604</td> <td>CLAMP,SUSPENSION HINGED 2C X 50MM2 S/S</td> <td>1</td> </tr> <tr> <td rowspan="3">XLVABC.50/3</td> <td rowspan="3">S</td> <td>79B</td> <td>325631</td> <td>EYE-BOLT,OPEN M16 X 350MM FIXED WASHER</td> <td>1</td> </tr> <tr> <td>94C</td> <td>145620</td> <td>CONNECTOR,IPC LV ABC</td> <td>8</td> </tr> <tr> <td>95C</td> <td>145612</td> <td>CLAMP,SUSPENSION HINGED 4C X 50MM2 S/S</td> <td>1</td> </tr> <tr> <td rowspan="3">XLVABC.95/1</td> <td rowspan="3">S</td> <td>79B</td> <td>325631</td> <td>EYE-BOLT,OPEN M16 X 350MM FIXED WASHER</td> <td>1</td> </tr> <tr> <td>94C</td> <td>145620</td> <td>CONNECTOR,IPC LV ABC</td> <td>4</td> </tr> <tr> <td>95D</td> <td>145611</td> <td>CLAMP,SUSPENSION HINGED 2C X 95MM2 S/S</td> <td>1</td> </tr> <tr> <td rowspan="3">XLVABC.95/3</td> <td rowspan="3">S</td> <td>79D</td> <td>325640</td> <td>EYE-BOLT,OPEN M20 X 350MM FIXED WASHER</td> <td>1</td> </tr> <tr> <td>94C</td> <td>145620</td> <td>CONNECTOR,IPC LV ABC</td> <td>8</td> </tr> <tr> <td>95A</td> <td>145610</td> <td>CLAMP,SUSPENSION HINGED 4C X 95MM2 S/S</td> <td>1</td> </tr> <tr> <td rowspan="3">XLVABC.150/3</td> <td rowspan="3">S</td> <td>79D</td> <td>325640</td> <td>EYE-BOLT,OPEN M20 X 350MM FIXED WASHER</td> <td>1</td> </tr> <tr> <td>94J</td> <td>145657</td> <td>CONNECTOR,IPC LV ABC</td> <td>8</td> </tr> <tr> <td>95J</td> <td>145608</td> <td>CABLE,SUSPENSION 4C X 150MM LVABC ALUM</td> <td>1</td> </tr> </tbody> </table>					Unit Assembly	Store Type	Item Ref	Stock Item	Stock Item Description	Quantity	XLVABC.50/1	S	79B	325631	EYE-BOLT,OPEN M16 X 350MM FIXED WASHER	1	94C	145620	CONNECTOR,IPC LV ABC	4	95B	145604	CLAMP,SUSPENSION HINGED 2C X 50MM2 S/S	1	XLVABC.50/3	S	79B	325631	EYE-BOLT,OPEN M16 X 350MM FIXED WASHER	1	94C	145620	CONNECTOR,IPC LV ABC	8	95C	145612	CLAMP,SUSPENSION HINGED 4C X 50MM2 S/S	1	XLVABC.95/1	S	79B	325631	EYE-BOLT,OPEN M16 X 350MM FIXED WASHER	1	94C	145620	CONNECTOR,IPC LV ABC	4	95D	145611	CLAMP,SUSPENSION HINGED 2C X 95MM2 S/S	1	XLVABC.95/3	S	79D	325640	EYE-BOLT,OPEN M20 X 350MM FIXED WASHER	1	94C	145620	CONNECTOR,IPC LV ABC	8	95A	145610	CLAMP,SUSPENSION HINGED 4C X 95MM2 S/S	1	XLVABC.150/3	S	79D	325640	EYE-BOLT,OPEN M20 X 350MM FIXED WASHER	1	94J	145657	CONNECTOR,IPC LV ABC	8	95J	145608	CABLE,SUSPENSION 4C X 150MM LVABC ALUM	1
Unit Assembly	Store Type	Item Ref	Stock Item	Stock Item Description	Quantity																																																																												
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		94C	145620	CONNECTOR,IPC LV ABC	4																																																																												
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ALTERATIONS	ORIGINAL ISSUE			© Tasmanian Networks PTY. LTD. trading as TasNetworks ABN: 24 167 357 299		DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED																																																																											
				TITLE LV ABC CROSSOVER AT POLE MATERIAL LIST		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																																																																											
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						REVISION A																																																																											
		D - OHC - B008 - SD - 002																																																																															

## 2.9 LV ABC Parallel Circuits Intermediate

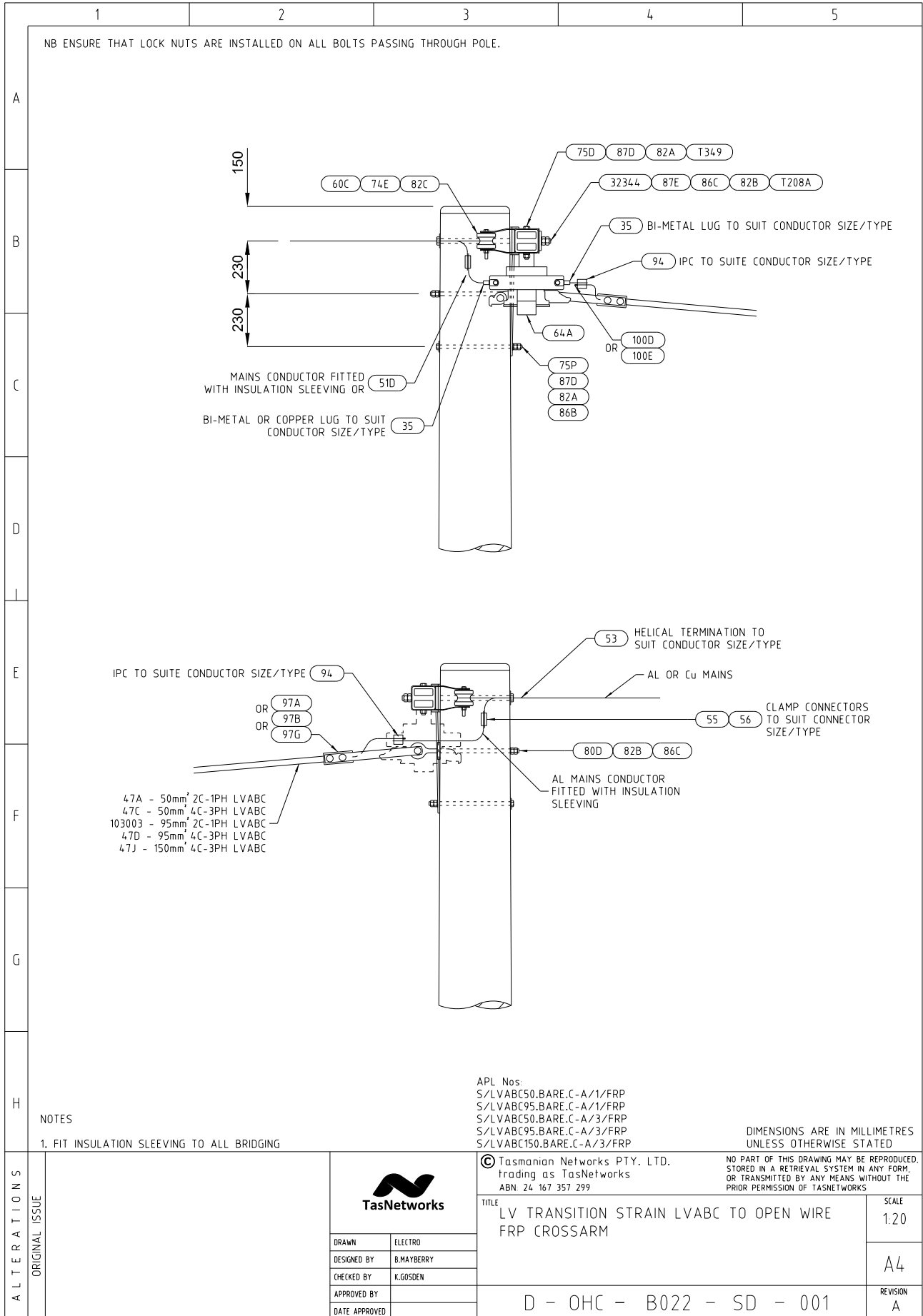


LV ABC Parallel Circuits Intermediate - Materials List

	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 rowspan="5">IP/LVABC.95/3</td> <td rowspan="5">S</td> <td>79D</td> <td>325640</td> <td>EYE-BOLT, OPEN M20 X 350MM FIXED WASHER</td> <td>1</td> </tr> <tr> <td>102E</td> <td>325637</td> <td>Eye, nut open M20</td> <td>1</td> </tr> <tr> <td>82A</td> <td>40441</td> <td>NUT, HEX M16 THREAD GALANISED STEEL</td> <td>2</td> </tr> <tr> <td>102D</td> <td>325619</td> <td>HOOK-NUT, OPEN TYPE T/S M16 BOLT HOOK</td> <td>1</td> </tr> <tr> <td>95A</td> <td>145610</td> <td>CLAMP, SUSPENSION HINGED 4C X 95MM2 S/S</td> <td>2</td> </tr> </tbody> </table>					Unit Assembly	Store Type	Item Ref	Stock Item	Stock Item Description	Quantity	IP/LVABC.95/3	S	79D	325640	EYE-BOLT, OPEN M20 X 350MM FIXED WASHER	1	102E	325637	Eye, nut open M20	1	82A	40441	NUT, HEX M16 THREAD GALANISED STEEL	2	102D	325619	HOOK-NUT, OPEN TYPE T/S M16 BOLT HOOK	1	95A	145610	CLAMP, SUSPENSION HINGED 4C X 95MM2 S/S	2
Unit Assembly	Store Type	Item Ref	Stock Item	Stock Item Description	Quantity																												
IP/LVABC.95/3	S	79D	325640	EYE-BOLT, OPEN M20 X 350MM FIXED WASHER	1																												
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ALTERNATIONS ORIGINAL ISSUE			© Tasmanian Networks PTY. LTD. trading as TasNetworks 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 LVABC PARALLEL CIRCUITS INTERMEDIATE MATERIAL LIST			SCALE NTS																											
			DRAWN	CS PRO-SOLUTIONS																													
			DESIGNED BY	ELECTRO																													
			CHECKED BY	H.WESTBURY																													
APPROVED BY	A KETLEY																																
DATE APPROVED	04/APR/19	D - OHC - B010 - SD - 002			REVISION A																												




### 2.11 LV ABC Transition Strain FRP Crossarm (ABC to Open Wire)








LV ABC Transition Strain FRP Crossarm (ABC to Open Wire) - Materials List 1

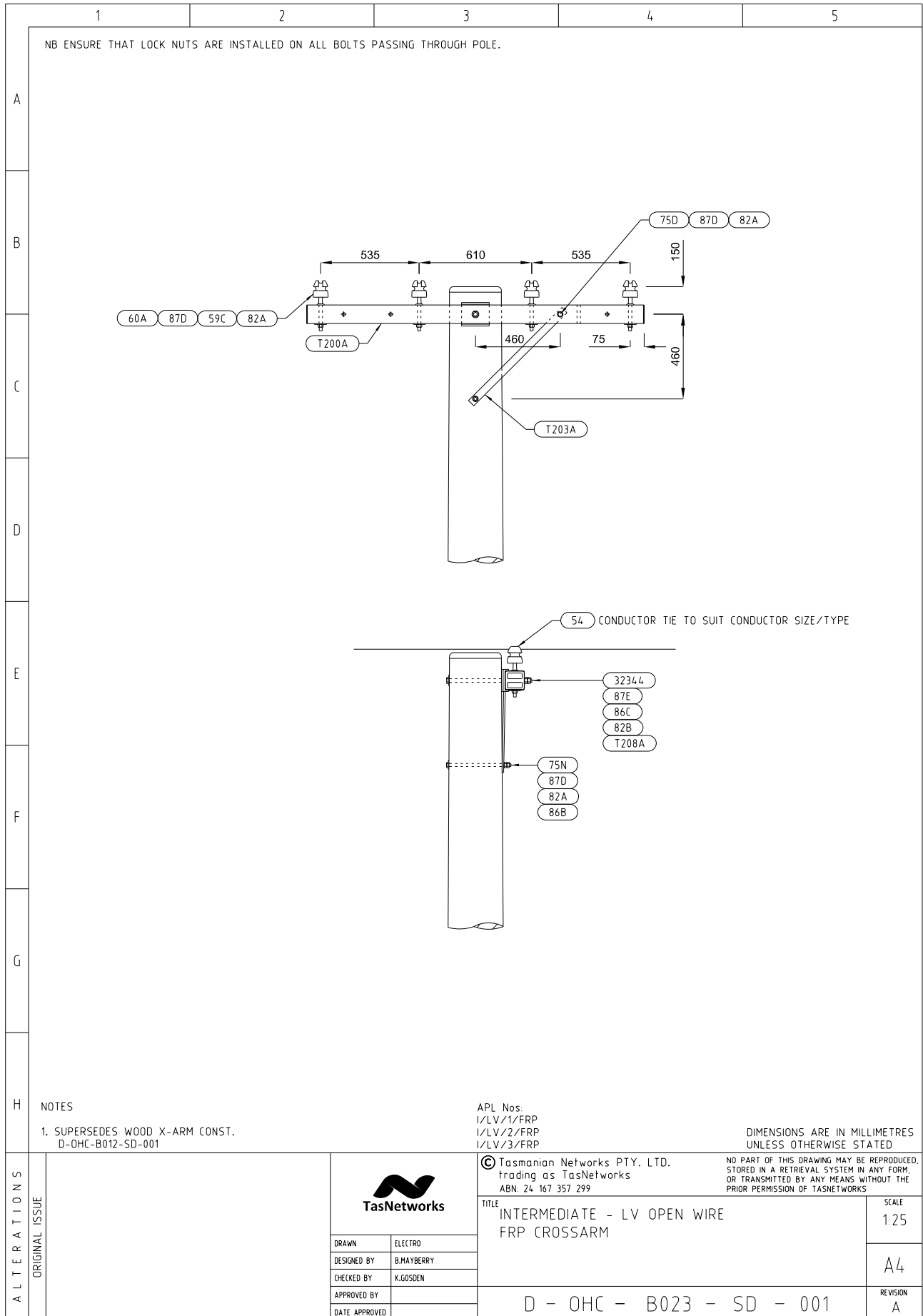
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B	S/LVABC50 .BARE.C- A/1/FRP	S	T200A	323215	CF X-Arm - 1830x100x100 - CA-100 SHS 1.824m (18 Dia Holes for X-Arm Strap & 630A SW/FUSE )	1			
			T203A	323316	X-Arm Brace - 716x40x8	1			
C			32344	32344	Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	1			
			75P	32288	Bolt, Hex M16 X 375 - Thread Length 150mm, ISO Grade 4.6 to AS1111	1			
			75D	32276	Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	4			
			82A	40441	Nut, Hex M16	7			
			86B	65158	Washer, ELS M16	1			
			87D	65616	Washer, NS M16	5			
			T349	323367	Shackle Strap, LV Strain/Dead End Construction, 225x40x3.0mm, M18 Hole & M14 Hole at Opposite Ends	4			
			60C	321117	Insulator, Strain 80mm SHLV2 to AS3608	2			
			74E	32223	Bolt, Hex M12 x 120 - Thread Length 35mm, ISO Grade 4.6 to AS1111	2			
			82C	40440	Nut, Hex M12	2			
			51D	103212	Conductor, Cu Insulated Hard Drawn 1c 70mm2, 19/2.14	1			
			47A	103004	Cable, Aerial Bundled 2c x 50mm2 x 7/3.06 x 0.6/1 XLPE	1			
			64A	236243	Switch Fuse 660V, 630Amp (Fused Isolating Link)	1			
			D			97B	145603	Clamp, Strain LVABC, 2C 50mm2 - 2C 95mm2 LVABC	1
80D	37261	Eye Bolt, M20 x 350				1			
100D	168017	End Cap No 2, Heat Shrink 8 - 17mm Dia Cable Range				2			
T208A	323306	GAIN BLOCK, 100mm Crossarm Type				1			
86C	65159	Washer, ELS M20				2			
82B	40442	Nut, Hex M20				4			
87E	65617	Washer, NS M20				2			
E	S/LVABC95 .BARE.C- A/1/FRP	S				T200A	323215	CF X-Arm - 1830x100x100 - CA-100 SHS 1.824m (18 Dia Holes for X-Arm Strap & 630A SW/FUSE )	1
						T203A	323316	X-Arm Brace - 716x40x8	1
						32344	32344	Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	1
			75P	32288	Bolt, Hex M16 X 375 - Thread Length 150mm, ISO Grade 4.6 to AS1111	1			
			75D	32276	Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	4			
			82A	40441	Nut, Hex M16	7			
			86B	65158	Washer, ELS M16	1			
			87D	65616	Washer, NS M16	5			
			T349	323367	Shackle Strap, LV Strain/Dead End Construction, 225x40x3.0mm, M18 Hole & M14 Hole at Opposite Ends	4			
			60C	321117	Insulator, Strain 80mm SHLV2 to AS3608	2			
			74E	32223	Bolt, Hex M12 x 120 - Thread Length 35mm, ISO Grade 4.6 to AS1111	2			
			82C	40440	Nut, Hex M12	2			
			51D	103212	Conductor, Cu Insulated Hard Drawn 1c 70mm2, 19/2.14	1			
			103003	103003	Cable, Aerial Bundled 2c x 95mm2 x 19/2.63 x 0.6/1 XLPE	1			
			64A	236243	Switch Fuse 660V, 630Amp (Fused Isolating Link)	1			
			97B	145603	Clamp, Strain LVABC, 2C 50mm2 - 2C 95mm2 LVABC	1			
			80D	37261	Eye Bolt, M20 x 350	1			
			100D	168017	End Cap No 2, Heat Shrink 8 - 17mm Dia Cable Range	2			
			T208A	323306	GAIN BLOCK, 100mm Crossarm Type	1			
			86C	65159	Washer, ELS M20	2			
			82B	40442	Nut, Hex M20	4			
			87E	65617	Washer, NS M20	2			
H									
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				TITLE		SCALE			
				LV TRANSITION STRAIN LVABC TO OPEN WIRE		NTS			
				FRP CROSSARM		A4			
				MATERIAL LIST		REVISION			
		D - OHC - B022 - SD - 003	A						



LV ABC Transition Strain FRP Crossarm (ABC to Open Wire) - Materials List 3

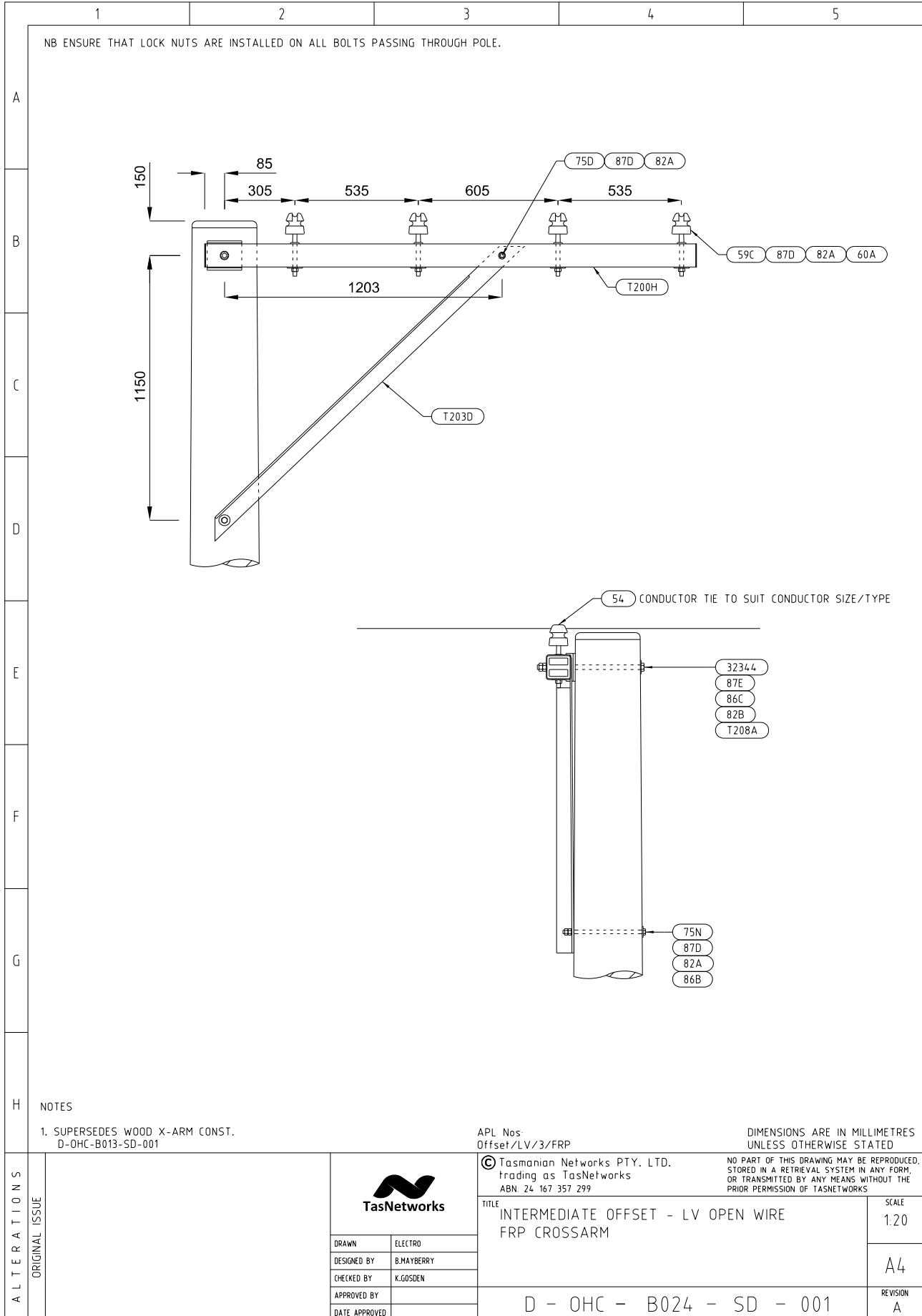
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A							
B							
C							
D	<b>Store Type</b>	<b>Item Ref</b>	<b>Stock Item</b>	<b>Stock Item Description</b>	<b>Quantity</b>		
	S	T200A	323215	CF X-Arm - 1830x100x100 - CA-100 SHS 1.824m (18 Dia Holes for X-Arm Strap & 630A SW/FUSE )	1		
		T203A	323316	X-Arm Brace - 716x40x8	1		
		32344	32344	Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	1		
		75P	32288	Bolt, Hex M16 X 375 - Thread Length 150mm, ISO Grade 4.6 to AS1111	1		
		75D	32276	Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	6		
		82A	40441	Nut, Hex M16	9		
		86B	65158	Washer, ELS M16	1		
		87D	65616	Washer, NS M16	7		
		T349	323367	Shackle Strap, LV Strain/Dead End Construction, 225x40x3.0mm, M18 Hole & M14 Hole at Opposite Ends	8		
		60C	321117	Insulator, Strain 80mm SHLV2 to AS3608	4		
		74E	32223	Bolt, Hex M12 x 120 - Thread Length 35mm, ISO Grade 4.6 to AS1111	4		
		82C	40440	Nut, Hex M12	4		
	E		51D	103212	Conductor, Cu Insulated Hard Drawn 1c 70mm2, 19/2.14	6	
			47J	103008	Cable, Aerial Bundled 4c x 150mm2 x 0.6/1 XLPE	1	
			64A	236243	Switch Fuse 660V, 630Amp (Fused Isolating Link)	3	
			97G	145607	Clamp, Strain LVABC, 4C 150mm2 LVABC	1	
			80D	37261	Eye Bolt, M20 x 350	1	
			100E	168019	End Cap No 3, Heat Shrink 17 - 30mm Dia Cable Range	4	
			T208A	323306	GAIN BLOCK, 100mm Crossarm Type	1	
		86C	65159	Washer, ELS M20	2		
F		82B	40442	Nut, Hex M20	4		
		87E	65617	Washer, NS M20	2		
G							
H							
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				TITLE LV TRANSITION STRAIN LVABC TO OPEN WIRE FRP CROSSARM MATERIAL LIST		SCALE NTS	
		DRAWN	ELECTRO	D - OHC - B022 - SD - 005		REVISION A	
		DESIGNED BY	B.MAYBERRY				
		CHECKED BY	K.GOSDEN				
APPROVED BY							
DATE APPROVED							

2.11.1 Intermediate LV Open Wire FRP Crossarm






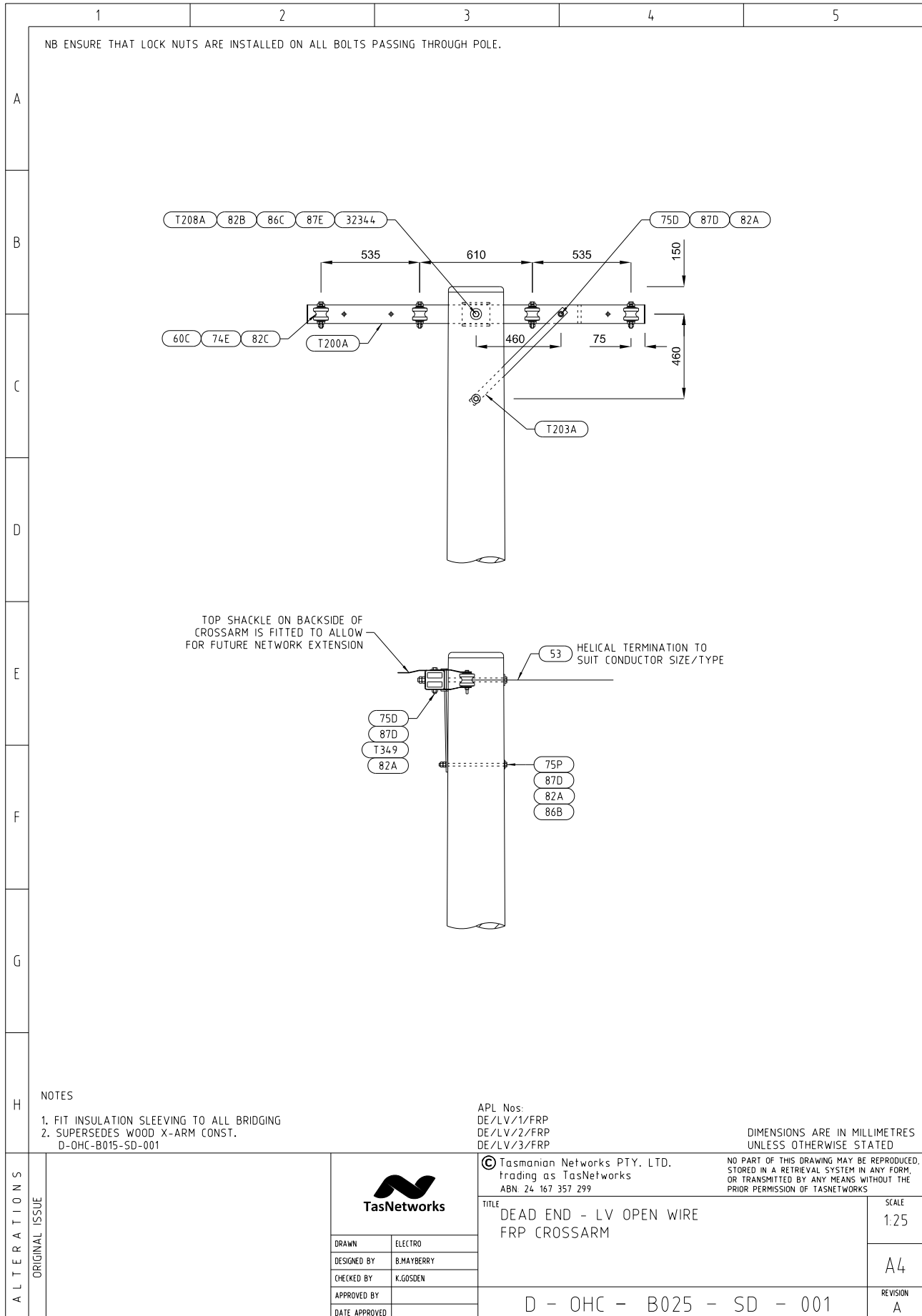
### 2.12 Intermediate Offset LV Open Wire FRP Crossarm



Intermediate Offset LV Open Wire - Materials List


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A							
B							
C							
D		<b>Store Type</b>	<b>Item Ref</b>	<b>Stock Item</b>	<b>Stock Item Description</b>	<b>Quantity</b>	
	P	S	T200H	NEW	CF X-Arm - 2130x100x100 - CA-100 SHS 2.124m LV OFFSET	1	
			T203D	NEW	X-Arm Brace - 1854x75x75x8	1	
			32344	32344	Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	1	
			75N	32287	Bolt, Hex M16 X 350 - Thread Length 150mm, ISO Grade 4.6 to AS1111	1	
			75D	32276	Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	1	
			82A	40441	Nut, Hex M16	8	
			86B	65158	Washer, ELS M16	1	
			87D	65616	Washer, NS M16	6	
			60A	320756	Insulator, Pin Type 660V LPLV to AS3608	4	
			59C	322723	Pin, Insulator 16mm Dia - LV	4	
			T208A	323306	GAIN BLOCK, 100mm Crossarm Type	1	
			86C	65159	Washer, ELS M20	1	
			82B	40442	Nut, Hex M20	2	
87E			65617	Washer, NS M20	1		
E							
F							
G							
H							
ALTERATIONS	ORIGINAL ISSUE			© Tasmanian Networks PTY. LTD. trading as TasNetworks 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			SCALE
				INTERMEDIATE OFFSET - LV OPEN WIRE			NTS
				FRP CROSSARM			A4
				MATERIAL LIST			REVISION
DATE APPROVED			A				
D - OHC - B024 - SD - 002							

### 2.13 Dead End LV Open Wire FRP Crossarm

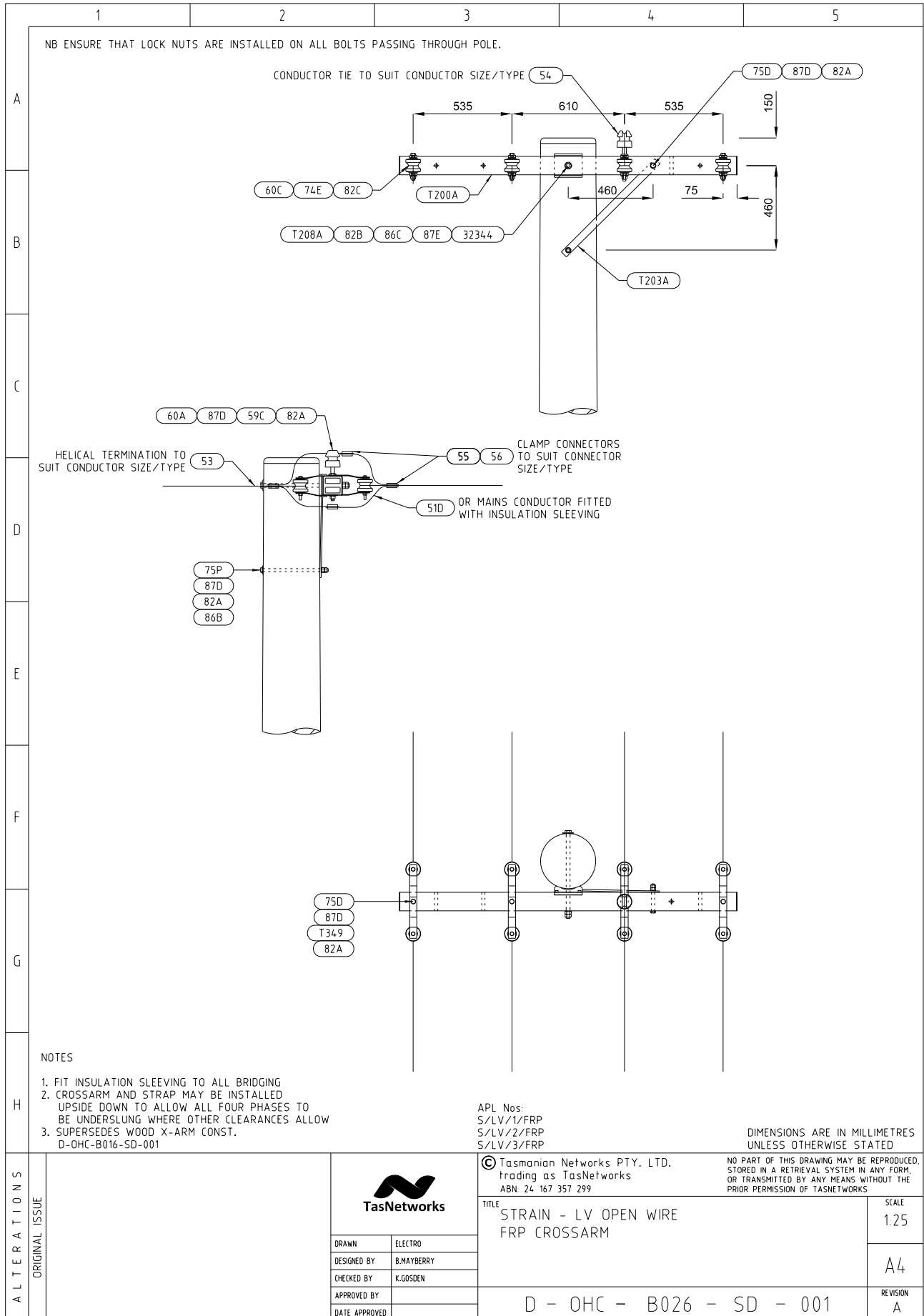





Dead End LV Open Wire FRP Crossarm – Materials List

		1	2	3	4	5					
A											
	B	DE/LV1/FRP	S	T200A	323215	CF X-Arm - 1830x100x100 - CA-100 SHS 1.824m (18 Dia Holes for X-Arm Strap & 630A SW/FUSE )	1				
				T203A	323316	X-Arm Brace - 716x40x8	1				
				32344	32344	Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	1				
				75P	32288	Bolt, Hex M16 X 375 - Thread Length 150mm, ISO Grade 4.6 to AS1111	1				
				75D	32276	Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	3				
				82A	40441	Nut, Hex M16	6				
				86B	65158	Washer, ELS M16	1				
				87D	65616	Washer, NS M16	4				
				T349	323367	Shackle Strap, LV Strain/Dead End Construction, 225x40x3.0mm, M18 Hole & M14 Hole at Opposite Ends	6				
				60C	321117	Insulator, Strain 80mm SHLV2 to AS3608	2				
				74E	32223	Bolt, Hex M12 x 120 - Thread Length 35mm, ISO Grade 4.6 to AS1111	2				
				82C	40440	Nut, Hex M12	2				
				T208A	323306	GAIN BLOCK, 100mm Crossarm Type	1				
				86C	65159	Washer, ELS M20	1				
				82B	40442	Nut, Hex M20	2				
				87E	65617	Washer, NS M20	1				
				C	DE/LV2/FRP	S	T200A	323215	CF X-Arm - 1830x100x100 - CA-100 SHS 1.824m (18 Dia Holes for X-Arm Strap & 630A SW/FUSE )	1	
T203A							323316	X-Arm Brace - 716x40x8	1		
32344	32344	Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	1								
75P	32288	Bolt, Hex M16 X 375 - Thread Length 150mm, ISO Grade 4.6 to AS1111	1								
75D	32276	Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	4								
82A	40441	Nut, Hex M16	7								
86B	65158	Washer, ELS M16	1								
87D	65616	Washer, NS M16	5								
T349	323367	Shackle Strap, LV Strain/Dead End Construction, 225x40x3.0mm, M18 Hole & M14 Hole at Opposite Ends	9								
60C	321117	Insulator, Strain 80mm SHLV2 to AS3608	3								
74E	32223	Bolt, Hex M12 x 120 - Thread Length 35mm, ISO Grade 4.6 to AS1111	3								
82C	40440	Nut, Hex M12	3								
T208A	323306	GAIN BLOCK, 100mm Crossarm Type	1								
86C	65159	Washer, ELS M20	1								
82B	40442	Nut, Hex M20	2								
87E	65617	Washer, NS M20	1								
D	DE/LV3/FRP	S	T200A				323215	CF X-Arm - 1830x100x100 - CA-100 SHS 1.824m (18 Dia Holes for X-Arm Strap & 630A SW/FUSE )	1		
			T203A				323316	X-Arm Brace - 716x40x8	1		
			32344	32344	Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	1					
			75P	32288	Bolt, Hex M16 X 375 - Thread Length 150mm, ISO Grade 4.6 to AS1111	1					
			75D	32276	Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	5					
			82A	40441	Nut, Hex M16	8					
			86B	65158	Washer, ELS M16	1					
			87D	65616	Washer, NS M16	6					
			T349	323367	Shackle Strap, LV Strain/Dead End Construction, 225x40x3.0mm, M18 Hole & M14 Hole at Opposite Ends	12					
			60C	321117	Insulator, Strain 80mm SHLV2 to AS3608	4					
			74E	32223	Bolt, Hex M12 x 120 - Thread Length 35mm, ISO Grade 4.6 to AS1111	4					
			82C	40440	Nut, Hex M12	4					
			T208A	323306	GAIN BLOCK, 100mm Crossarm Type	1					
			86C	65159	Washer, ELS M20	1					
			82B	40442	Nut, Hex M20	2					
			87E	65617	Washer, NS M20	1					
			E								
				F							
G											
	H										
		ALTERNATIONS			ORIGINAL ISSUE			© Tasmanian Networks PTY. LTD. trading as TasNetworks 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 DEAD END - LV OPEN WIRE FRP CROSSARM MATERIAL LIST				SCALE NTS	A4
						DRAWN	ELECTRO	D - OHC - B025 - SD - 002		REVISION A	
						DESIGNED BY	B.MAYBERRY				
						CHECKED BY	K.GOSDEN				
						APPROVED BY					
						DATE APPROVED					

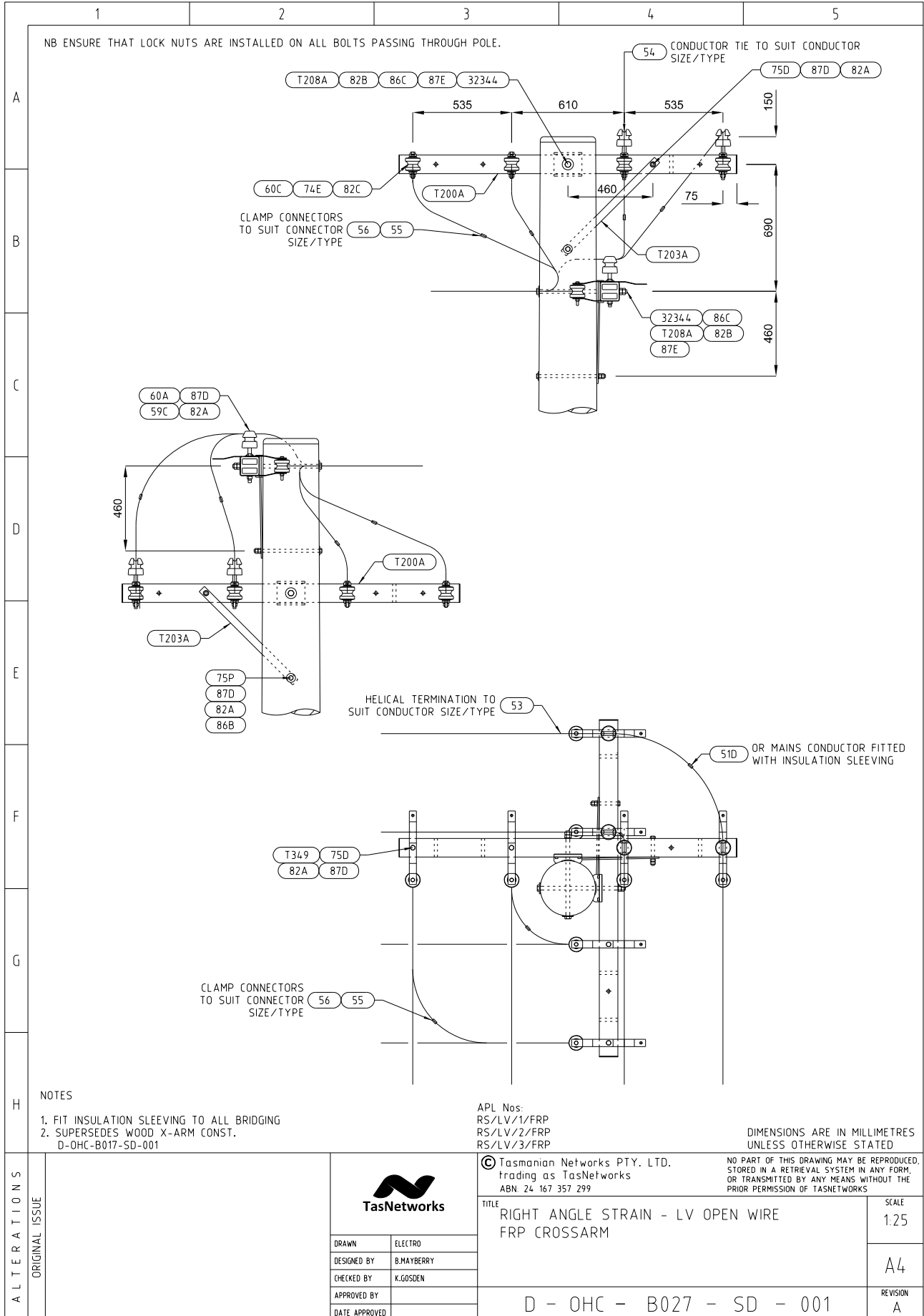
### 2.14 Strain LV Open Wire FRP Crossarm




Strain LV Open Wire FRP Crossarm - Materials List

		1	2	3	4	5		
A	S/LV/1/FRP	S	T200A	323215	CF X-Arm - 1830x100x100 - CA-100 SHS 1.824m (18 Dia Holes for X-Arm Strap & 630A SW/FUSE )	1		
			T203A	323316	X-Arm Brace - 716x40x8	1		
			32344	32344	Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	1		
			75P	32288	Bolt, Hex M16 X 375 - Thread Length 150mm, ISO Grade 4.6 to AS1111	1		
			75D	32276	Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	3		
			82A	40441	Nut, Hex M16	6		
			86B	65158	Washer, ELS M16	1		
			87D	65616	Washer, NS M16	4		
			T349	323367	Shackle Strap, LV Strain/Dead End Construction, 225x40x3.0mm, M18 Hole & M14 Hole at Opposite Ends	8		
			60C	321117	Insulator, Strain 80mm SHLV2 to AS3608	4		
B	S/LV/2/FRP	S	74E	32223	Bolt, Hex M12 x 120 - Thread Length 35mm, ISO Grade 4.6 to AS1111	4		
			82C	40440	Nut, Hex M12	4		
			51D	103212	Conductor, Cu Insulated Hard Drawn 1c 70mm2, 19/2.14	2		
			T208A	323306	GAIN BLOCK, 100mm Crossarm Type	1		
			86C	65159	Washer, ELS M20	1		
			82B	40442	Nut, Hex M20	2		
			87E	65617	Washer, NS M20	1		
			T200A	323215	CF X-Arm - 1830x100x100 - CA-100 SHS 1.824m (18 Dia Holes for X-Arm Strap & 630A SW/FUSE )	1		
			T203A	323316	X-Arm Brace - 716x40x8	1		
			32344	32344	Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	1		
C	S/LV/2/FRP	S	75P	32288	Bolt, Hex M16 X 375 - Thread Length 150mm, ISO Grade 4.6 to AS1111	1		
			75D	32276	Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	4		
			82A	40441	Nut, Hex M16	7		
			86B	65158	Washer, ELS M16	1		
			87D	65616	Washer, NS M16	5		
			T349	323367	Shackle Strap, LV Strain/Dead End Construction, 225x40x3.0mm, M18 Hole & M14 Hole at Opposite Ends	12		
			60C	321117	Insulator, Strain 80mm SHLV2 to AS3608	6		
			74E	32223	Bolt, Hex M12 x 120 - Thread Length 35mm, ISO Grade 4.6 to AS1111	6		
			82C	40440	Nut, Hex M12	6		
			51D	103212	Conductor, Cu Insulated Hard Drawn 1c 70mm2, 19/2.14	3		
D	S/LV/2/FRP	S	T208A	323306	GAIN BLOCK, 100mm Crossarm Type	1		
			86C	65159	Washer, ELS M20	1		
			82B	40442	Nut, Hex M20	2		
			87E	65617	Washer, NS M20	1		
			T200A	323215	CF X-Arm - 1830x100x100 - CA-100 SHS 1.824m (18 Dia Holes for X-Arm Strap & 630A SW/FUSE )	1		
			T203A	323316	X-Arm Brace - 716x40x8	1		
			32344	32344	Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	1		
			75P	32288	Bolt, Hex M16 X 375 - Thread Length 150mm, ISO Grade 4.6 to AS1111	1		
			75D	32276	Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	5		
			82A	40441	Nut, Hex M16	8		
E	S/LV/3/FRP	S	86B	65158	Washer, ELS M16	1		
			87D	65616	Washer, NS M16	6		
			T349	323367	Shackle Strap, LV Strain/Dead End Construction, 225x40x3.0mm, M18 Hole & M14 Hole at Opposite Ends	16		
			60C	321117	Insulator, Strain 80mm SHLV2 to AS3608	8		
			74E	32223	Bolt, Hex M12 x 120 - Thread Length 35mm, ISO Grade 4.6 to AS1111	8		
			82C	40440	Nut, Hex M12	8		
			60A	320756	Insulator, Pin Type 660V LPLV to AS3608	1		
			59C	322723	Pin, Insulator 16mm Dia - LV	1		
			51D	103212	Conductor, Cu Insulated Hard Drawn 1c 70mm2, 19/2.14	4		
			T208A	323306	GAIN BLOCK, 100mm Crossarm Type	1		
F	S/LV/3/FRP	S	86C	65159	Washer, ELS M20	1		
			82B	40442	Nut, Hex M20	2		
			87E	65617	Washer, NS M20	1		
			T200A	323215	CF X-Arm - 1830x100x100 - CA-100 SHS 1.824m (18 Dia Holes for X-Arm Strap & 630A SW/FUSE )	1		
			T203A	323316	X-Arm Brace - 716x40x8	1		
			32344	32344	Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	1		
			75P	32288	Bolt, Hex M16 X 375 - Thread Length 150mm, ISO Grade 4.6 to AS1111	1		
			75D	32276	Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	5		
			82A	40441	Nut, Hex M16	8		
			86B	65158	Washer, ELS M16	1		
G	S/LV/3/FRP	S	87D	65616	Washer, NS M16	6		
			T349	323367	Shackle Strap, LV Strain/Dead End Construction, 225x40x3.0mm, M18 Hole & M14 Hole at Opposite Ends	16		
			60C	321117	Insulator, Strain 80mm SHLV2 to AS3608	8		
			74E	32223	Bolt, Hex M12 x 120 - Thread Length 35mm, ISO Grade 4.6 to AS1111	8		
			82C	40440	Nut, Hex M12	8		
			60A	320756	Insulator, Pin Type 660V LPLV to AS3608	1		
			59C	322723	Pin, Insulator 16mm Dia - LV	1		
			51D	103212	Conductor, Cu Insulated Hard Drawn 1c 70mm2, 19/2.14	4		
			T208A	323306	GAIN BLOCK, 100mm Crossarm Type	1		
			86C	65159	Washer, ELS M20	1		
H	S/LV/3/FRP	S	82B	40442	Nut, Hex M20	2		
			87E	65617	Washer, NS M20	1		
								
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			TITLE STRAIN - LV OPEN WIRE FRP CROSSARM MATERIAL LIST					SCALE NTS
			DRAWN ELECTRO DESIGNED BY B.MAYBERRY CHECKED BY K.GOSDEN APPROVED BY DATE APPROVED					A4
			D - OHC - B026 - SD - 002					REVISION A
			AL T E R A T I O N S ORIGINAL ISSUE					

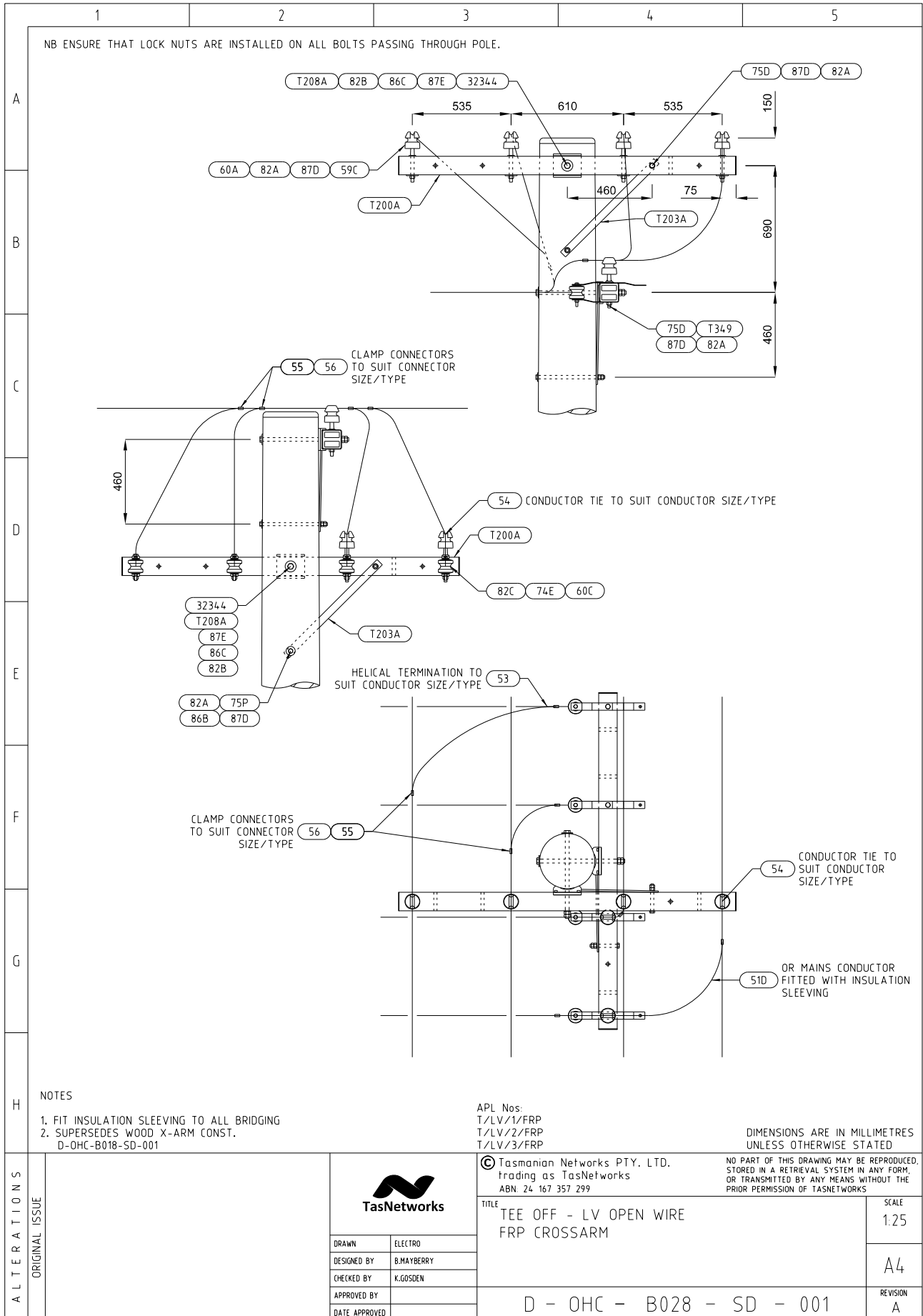
### 2.15 Right Angle Strain LV Open Wire FRP Crossarm



Right Angle Strain LV Open Wire FRP Crossarm – Materials List

		1	2	3	4	5			
		Store Type	Item Ref	Stock Item	Stock Item Description	Quantity			
A	RS/LV/1/FRP	S	T200A	323215	CF X-Arm - 1830x100x100 - CA-100 SHS 1.824m (18 Dia Holes for X-Arm Strap & 630A SW/FUSE )	2			
			T203A	323316	X-Arm Brace - 716x40x8	2			
			32344	32344	Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	2			
			75P	32288	Bolt, Hex M16 X 375 - Thread Length 150mm, ISO Grade 4.6 to AS1111	2			
			75D	32276	Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	6			
			82A	40441	Nut, Hex M16	12			
			86B	65158	Washer, ELS M16	2			
			87D	65616	Washer, NS M16	8			
			T349	323367	Shackle Strap, LV Strain/Dead End Construction, 225x40x3.0mm, M18 Hole & M14 Hole at Opposite Ends	12			
			60C	321117	Insulator, Strain 80mm SHLV2 to AS3608	4			
			74E	32223	Bolt, Hex M12 x 120 - Thread Length 35mm, ISO Grade 4.6 to AS1111	4			
			82C	40440	Nut, Hex M12	4			
			60A	320756	Insulator, Pin Type 660V LPLV to AS3608	2			
			59C	322723	Pin, Insulator 16mm Dia - LV	2			
			51D	103212	Conductor, Cu Insulated Hard Drawn 1c 70mm2, 19/2.14	5			
			87C	65615	Washer, NS M12	2			
			B			T208A	323306	GAIN BLOCK, 100mm Crossarm Type	2
						86C	65159	Washer, ELS M20	2
82B	40442	Nut, Hex M20				4			
87E	65617	Washer, NS M20				2			
C	RS/LV/2/FRP	S	T200A	323215	CF X-Arm - 1830x100x100 - CA-100 SHS 1.824m (18 Dia Holes for X-Arm Strap & 630A SW/FUSE )	2			
			T203A	323316	X-Arm Brace - 716x40x8	2			
			32344	32344	Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	2			
			75P	32288	Bolt, Hex M16 X 375 - Thread Length 150mm, ISO Grade 4.6 to AS1111	2			
			75D	32276	Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	8			
			82A	40441	Nut, Hex M16	14			
			86B	65158	Washer, ELS M16	2			
			87D	65616	Washer, NS M16	10			
			T349	323367	Shackle Strap, LV Strain/Dead End Construction, 225x40x3.0mm, M18 Hole & M14 Hole at Opposite Ends	18			
			60C	321117	Insulator, Strain 80mm SHLV2 to AS3608	6			
			74E	32223	Bolt, Hex M12 x 120 - Thread Length 35mm, ISO Grade 4.6 to AS1111	6			
			82C	40440	Nut, Hex M12	6			
			60A	320756	Insulator, Pin Type 660V LPLV to AS3608	2			
			59C	322723	Pin, Insulator 16mm Dia - LV	2			
			51D	103212	Conductor, Cu Insulated Hard Drawn 1c 70mm2, 19/2.14	7			
			87C	65615	Washer, NS M12	2			
			D			T208A	323306	GAIN BLOCK, 100mm Crossarm Type	2
						86C	65159	Washer, ELS M20	2
82B	40442	Nut, Hex M20				4			
87E	65617	Washer, NS M20				2			
E	RS/LV/3/FRP	S	T200A	323215	CF X-Arm - 1830x100x100 - CA-100 SHS 1.824m (18 Dia Holes for X-Arm Strap & 630A SW/FUSE )	2			
			T203A	323316	X-Arm Brace - 716x40x8	2			
			32344	32344	Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	2			
			75P	32288	Bolt, Hex M16 X 375 - Thread Length 150mm, ISO Grade 4.6 to AS1111	2			
			75D	32276	Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	10			
			82A	40441	Nut, Hex M16	16			
			86B	65158	Washer, ELS M16	2			
			87D	65616	Washer, NS M16	12			
			T349	323367	Shackle Strap, LV Strain/Dead End Construction, 225x40x3.0mm, M18 Hole & M14 Hole at Opposite Ends	24			
			60C	321117	Insulator, Strain 80mm SHLV2 to AS3608	8			
			74E	32223	Bolt, Hex M12 x 120 - Thread Length 35mm, ISO Grade 4.6 to AS1111	8			
			82C	40440	Nut, Hex M12	8			
			60A	320756	Insulator, Pin Type 660V LPLV to AS3608	4			
			59C	322723	Pin, Insulator 16mm Dia - LV	4			
			51D	103212	Conductor, Cu Insulated Hard Drawn 1c 70mm2, 19/2.14	10			
			87C	65615	Washer, NS M12	2			
			F			T208A	323306	GAIN BLOCK, 100mm Crossarm Type	2
						86C	65159	Washer, ELS M20	2
82B	40442	Nut, Hex M20				4			
87E	65617	Washer, NS M20				2			
G			T200A	323215	CF X-Arm - 1830x100x100 - CA-100 SHS 1.824m (18 Dia Holes for X-Arm Strap & 630A SW/FUSE )	2			
			T203A	323316	X-Arm Brace - 716x40x8	2			
			32344	32344	Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	2			
			75P	32288	Bolt, Hex M16 X 375 - Thread Length 150mm, ISO Grade 4.6 to AS1111	2			
			75D	32276	Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	10			
			82A	40441	Nut, Hex M16	16			
			86B	65158	Washer, ELS M16	2			
			87D	65616	Washer, NS M16	12			
			T349	323367	Shackle Strap, LV Strain/Dead End Construction, 225x40x3.0mm, M18 Hole & M14 Hole at Opposite Ends	24			
			60C	321117	Insulator, Strain 80mm SHLV2 to AS3608	8			
			74E	32223	Bolt, Hex M12 x 120 - Thread Length 35mm, ISO Grade 4.6 to AS1111	8			
			82C	40440	Nut, Hex M12	8			
			60A	320756	Insulator, Pin Type 660V LPLV to AS3608	4			
			59C	322723	Pin, Insulator 16mm Dia - LV	4			
			51D	103212	Conductor, Cu Insulated Hard Drawn 1c 70mm2, 19/2.14	10			
			87C	65615	Washer, NS M12	2			
			H			T208A	323306	GAIN BLOCK, 100mm Crossarm Type	2
						86C	65159	Washer, ELS M20	2
82B	40442	Nut, Hex M20				4			
87E	65617	Washer, NS M20				2			
ALTERNATIONS	ORIGINAL ISSUE					© Tasmanian Networks PTY. LTD. trading as TasNetworks 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 RIGHT ANGLE STRAIN - LV OPEN WIRE FRP CROSSARM MATERIAL LIST		SCALE NTS	
		DRAWN		ELECTRO					
		DESIGNED BY		B.MAYBERRY					
		CHECKED BY		K.GOSDEN					
		APPROVED BY							
		DATE APPROVED							
						D - OHC - B027 - SD - 002		REVISION A	


### 2.16 Tee Off LV Open Wire FRP Crossarm



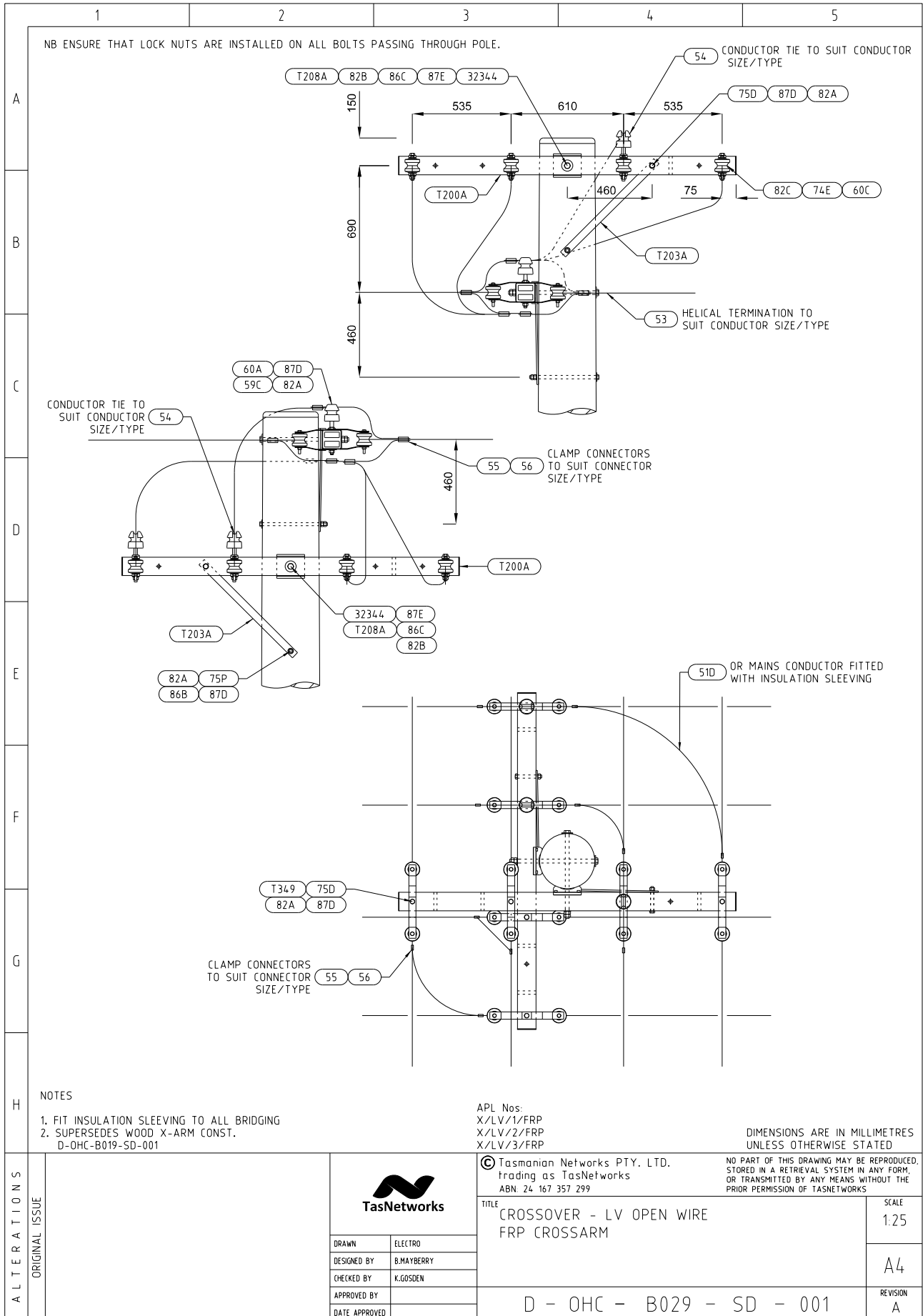
Tee Off LV Open Wire FRP Crossarm – Materials List

		1	2	3	4	5		
		Store Type	Item Ref	Stock Item	Stock Item Description	Quantity		
A	T/LV/1/FRP	S	T200A	323215	CF X-Arm - 1830x100x100 - CA-100 SHS 1.824m (18 Dia Holes for X-Arm Strap & 630A SW/FUSE )	2		
			T203A	323316	X-Arm Brace - 716x40x8	2		
			32344	32344	Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	2		
			75P	32288	Bolt, Hex M16 X375 - Thread Length 150mm, ISO Grade 4.6 to AS1111	2		
			75D	32276	Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	4		
			82A	40441	Nut, Hex M16	12		
			86B	65158	Washer, ELS M16	2		
			87D	65616	Washer, NS M16	8		
			T349	323367	Shackle Strap, LV Strain/Dead End Construction, 225x40x3.0mm, M18 Hole & M14 Hole at Opposite Ends	6		
			B			60C	321117	Insulator, Strain 80mm SHLV2 to AS3608
74E	32223	Bolt, Hex M12 x 120 - Thread Length 35mm, ISO Grade 4.6 to AS1111				2		
82C	40440	Nut, Hex M12				2		
51D	103212	Conductor, Cu Insulated Hard Drawn 1c 70mm <sup>2</sup> , 19/2.14				5		
60A	320756	Insulator, Pin Type 660V LPLV to AS3608				1		
59C	322723	Pin, Insulator 16mm Dia - LV				1		
T208A	323306	GAIN BLOCK, 100mm Crossarm Type				2		
86C	65159	Washer, ELS M20				2		
82B	40442	Nut, Hex M20				4		
C						87E	65617	Washer, NS M20
			T/LV/2/FRP	S	T200A	323215	CF X-Arm - 1830x100x100 - CA-100 SHS 1.824m (18 Dia Holes for X-Arm Strap & 630A SW/FUSE )	2
			T203A		323316	X-Arm Brace - 716x40x8	2	
			32344		32344	Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	2	
			75P		32288	Bolt, Hex M16 X375 - Thread Length 150mm, ISO Grade 4.6 to AS1111	2	
			75D		32276	Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	5	
			82A		40441	Nut, Hex M16	14	
			86B		65158	Washer, ELS M16	2	
			87D		65616	Washer, NS M16	10	
			T349		323367	Shackle Strap, LV Strain/Dead End Construction, 225x40x3.0mm, M18 Hole & M14 Hole at Opposite Ends	9	
D			60C		321117	Insulator, Strain 80mm SHLV2 to AS3608	3	
			74E	32223	Bolt, Hex M12 x 120 - Thread Length 35mm, ISO Grade 4.6 to AS1111	3		
			82C	40440	Nut, Hex M12	3		
			51D	103212	Conductor, Cu Insulated Hard Drawn 1c 70mm <sup>2</sup> , 19/2.14	7		
			60A	320756	Insulator, Pin Type 660V LPLV to AS3608	1		
			59C	322723	Pin, Insulator 16mm Dia - LV	1		
			T208A	323306	GAIN BLOCK, 100mm Crossarm Type	2		
			86C	65159	Washer, ELS M20	2		
			82B	40442	Nut, Hex M20	4		
			E			87E	65617	Washer, NS M20
T/LV/3/FRP	S	T200A				323215	CF X-Arm - 1830x100x100 - CA-100 SHS 1.824m (18 Dia Holes for X-Arm Strap & 630A SW/FUSE )	2
T203A		323316				X-Arm Brace - 716x40x8	2	
32344		32344				Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	2	
75P		32288				Bolt, Hex M16 X375 - Thread Length 150mm, ISO Grade 4.6 to AS1111	2	
75D		32276				Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	6	
82A		40441				Nut, Hex M16	16	
86B		65158				Washer, ELS M16	2	
87D		65616				Washer, NS M16	12	
T349		323367				Shackle Strap, LV Strain/Dead End Construction, 225x40x3.0mm, M18 Hole & M14 Hole at Opposite Ends	12	
F				60C	321117	Insulator, Strain 80mm SHLV2 to AS3608	4	
	74E			32223	Bolt, Hex M12 x 120 - Thread Length 35mm, ISO Grade 4.6 to AS1111	4		
	82C			40440	Nut, Hex M12	4		
	51D			103212	Conductor, Cu Insulated Hard Drawn 1c 70mm <sup>2</sup> , 19/2.14	10		
	60A			320756	Insulator, Pin Type 660V LPLV to AS3608	2		
	59C			322723	Pin, Insulator 16mm Dia - LV	2		
	T208A			323306	GAIN BLOCK, 100mm Crossarm Type	2		
	86C			65159	Washer, ELS M20	2		
	82B			40442	Nut, Hex M20	4		
	G					87E	65617	Washer, NS M20
T/LV/1/FRP		S	T200A			323215	CF X-Arm - 1830x100x100 - CA-100 SHS 1.824m (18 Dia Holes for X-Arm Strap & 630A SW/FUSE )	2
T203A			323316			X-Arm Brace - 716x40x8	2	
32344			32344			Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	2	
75P			32288			Bolt, Hex M16 X375 - Thread Length 150mm, ISO Grade 4.6 to AS1111	2	
75D			32276			Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	6	
82A			40441			Nut, Hex M16	16	
86B			65158			Washer, ELS M16	2	
87D			65616			Washer, NS M16	12	
T349			323367			Shackle Strap, LV Strain/Dead End Construction, 225x40x3.0mm, M18 Hole & M14 Hole at Opposite Ends	12	
H				60C	321117	Insulator, Strain 80mm SHLV2 to AS3608	4	
		74E		32223	Bolt, Hex M12 x 120 - Thread Length 35mm, ISO Grade 4.6 to AS1111	4		
		82C		40440	Nut, Hex M12	4		
		51D		103212	Conductor, Cu Insulated Hard Drawn 1c 70mm <sup>2</sup> , 19/2.14	10		
		60A		320756	Insulator, Pin Type 660V LPLV to AS3608	2		
		59C		322723	Pin, Insulator 16mm Dia - LV	2		
		T208A		323306	GAIN BLOCK, 100mm Crossarm Type	2		
		86C		65159	Washer, ELS M20	2		
		82B		40442	Nut, Hex M20	4		
		H				87E	65617	Washer, NS M20

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		TITLE TEE OFF - LV OPEN WIRE FRP CROSSARM MATERIAL LIST				SCALE NTS
		DRAWN	ELECTRO			A4
		DESIGNED BY	B.MAYBERRY			
		CHECKED BY	K.GOSDEN			
APPROVED BY						
DATE APPROVED		D - OHC - B028 - SD - 002	REVISION A			


### 2.17 Cross Over LV Open Wire FRP Crossarm





Cross Over LV Open Wire FRP Crossarm – Materials List

		1	2	3	4	5			
		Store Type	Item Ref	Stock Item	Stock Item Description	Quantity			
A	XLV1/1/FRP	S	T200A	323215	CF X-Arm - 1830x100x100 - CA-100 SHS 1.824m (18 Dia Holes for X-Arm Strap & 630A SW/FUSE )	2			
			T203A	323316	X-Arm Brace - 716x40x8	2			
			32344	32344	Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	2			
			75P	32288	Bolt, Hex M16 X375 - Thread Length 150mm, ISO Grade 4.6 to AS1111	2			
			75D	32276	Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	6			
			82A	40441	Nut, Hex M16	12			
			86B	65158	Washer, ELS M16	2			
			87D	65616	Washer, NS M16	8			
			T349	323367	Shackle Strap, LV Strain/Dead End Construction, 225x40x3.0mm, M18 Hole & M14 Hole at Opposite Ends	16			
			60C	321117	Insulator, Strain 80mm SHLV2 to AS3608	8			
			74E	32223	Bolt, Hex M12 x 120 - Thread Length 35mm, ISO Grade 4.6 to AS1111	8			
			82C	40440	Nut, Hex M12	8			
			60A	320756	Insulator, Pin Type 660V LPLV to AS3608	1			
			B	XLV1/1/FRP	S	59C	322723	Pin, Insulator 16mm Dia - LV	1
51D	103212	Conductor, Cu Insulated Hard Drawn 1c 70mm2, 19/2.14				5			
87C	65615	Washer, NS M12				2			
T208A	323306	GAIN BLOCK, 100mm Crossarm Type				2			
86C	65159	Washer, ELS M20				2			
82B	40442	Nut, Hex M20				4			
87E	65617	Washer, NS M20				2			
C	XLV2/2/FRP	S				T200A	323215	CF X-Arm - 1830x100x100 - CA-100 SHS 1.824m (18 Dia Holes for X-Arm Strap & 630A SW/FUSE )	2
						T203A	323316	X-Arm Brace - 716x40x8	2
						32344	32344	Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	2
						75P	32288	Bolt, Hex M16 X375 - Thread Length 150mm, ISO Grade 4.6 to AS1111	2
						75D	32276	Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	8
						82A	40441	Nut, Hex M16	14
						86B	65158	Washer, ELS M16	2
			87D	65616	Washer, NS M16	10			
			T349	323367	Shackle Strap, LV Strain/Dead End Construction, 225x40x3.0mm, M18 Hole & M14 Hole at Opposite Ends	24			
			60C	321117	Insulator, Strain 80mm SHLV2 to AS3608	12			
			74E	32223	Bolt, Hex M12 x 120 - Thread Length 35mm, ISO Grade 4.6 to AS1111	12			
			82C	40440	Nut, Hex M12	12			
			60A	320756	Insulator, Pin Type 660V LPLV to AS3608	1			
			D	XLV2/2/FRP	S	59C	322723	Pin, Insulator 16mm Dia - LV	1
51D	103212	Conductor, Cu Insulated Hard Drawn 1c 70mm2, 19/2.14				7			
87C	65615	Washer, NS M12				2			
T208A	323306	GAIN BLOCK, 100mm Crossarm Type				2			
86C	65159	Washer, ELS M20				2			
82B	40442	Nut, Hex M20				4			
87E	65617	Washer, NS M20				2			
E	XLV3/3/FRP	S				T200A	323215	CF X-Arm - 1830x100x100 - CA-100 SHS 1.824m (18 Dia Holes for X-Arm Strap & 630A SW/FUSE )	2
						T203A	323316	X-Arm Brace - 716x40x8	2
						32344	32344	Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	2
						75P	32288	Bolt, Hex M16 X375 - Thread Length 150mm, ISO Grade 4.6 to AS1111	2
						75D	32276	Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	10
						82A	40441	Nut, Hex M16	16
						86B	65158	Washer, ELS M16	2
			87D	65616	Washer, NS M16	12			
			T349	323367	Shackle Strap, LV Strain/Dead End Construction, 225x40x3.0mm, M18 Hole & M14 Hole at Opposite Ends	32			
			60C	321117	Insulator, Strain 80mm SHLV2 to AS3608	16			
			74E	32223	Bolt, Hex M12 x 120 - Thread Length 35mm, ISO Grade 4.6 to AS1111	16			
			82C	40440	Nut, Hex M12	16			
			60A	320756	Insulator, Pin Type 660V LPLV to AS3608	3			
			F	XLV3/3/FRP	S	59C	322723	Pin, Insulator 16mm Dia - LV	3
51D	103212	Conductor, Cu Insulated Hard Drawn 1c 70mm2, 19/2.14				10			
87C	65615	Washer, NS M12				2			
T208A	323306	GAIN BLOCK, 100mm Crossarm Type				2			
86C	65159	Washer, ELS M20				2			
82B	40442	Nut, Hex M20				4			
87E	65617	Washer, NS M20				2			
G	XLV3/3/FRP	S				T200A	323215	CF X-Arm - 1830x100x100 - CA-100 SHS 1.824m (18 Dia Holes for X-Arm Strap & 630A SW/FUSE )	2
						T203A	323316	X-Arm Brace - 716x40x8	2
						32344	32344	Bolt, Hex M20 x 500 - Thread length 150mm, ISO Grade 4.6 to AS1111	2
						75P	32288	Bolt, Hex M16 X375 - Thread Length 150mm, ISO Grade 4.6 to AS1111	2
						75D	32276	Bolt, Hex M16 X 150 - Thread Length 55mm, ISO Grade 4.6 to AS1111	10
						82A	40441	Nut, Hex M16	16
						86B	65158	Washer, ELS M16	2
			87D	65616	Washer, NS M16	12			
			T349	323367	Shackle Strap, LV Strain/Dead End Construction, 225x40x3.0mm, M18 Hole & M14 Hole at Opposite Ends	32			
			60C	321117	Insulator, Strain 80mm SHLV2 to AS3608	16			
			74E	32223	Bolt, Hex M12 x 120 - Thread Length 35mm, ISO Grade 4.6 to AS1111	16			
			82C	40440	Nut, Hex M12	16			
			60A	320756	Insulator, Pin Type 660V LPLV to AS3608	3			
			H	XLV3/3/FRP	S	59C	322723	Pin, Insulator 16mm Dia - LV	3
51D	103212	Conductor, Cu Insulated Hard Drawn 1c 70mm2, 19/2.14				10			
87C	65615	Washer, NS M12				2			
T208A	323306	GAIN BLOCK, 100mm Crossarm Type				2			
86C	65159	Washer, ELS M20				2			
82B	40442	Nut, Hex M20				4			
87E	65617	Washer, NS M20				2			

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				TITLE CROSSOVER - LV OPEN WIRE FRP CROSSARM MATERIAL LIST		SCALE NTS			
		DRAWN		ELECTRO		D - OHC - B029 - SD - 002		REVISION A	
		DESIGNED BY		B.MAYBERRY					
		CHECKED BY		K.GOSDEN					
APPROVED BY									
		DATE APPROVED							