



Distribution Overhead Construction Standard

Section 5 Pole Mounted Substations

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Authorisations

Action	Name and title	Date
Prepared by	Tetiana Knyzhka	30/03/2026
Reviewed by	Aftab Hussain	31/03/2026
Authorised by	Branden Papalia	02/04/2026
Review cycle	5 Years	

Responsibilities

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

Please contact the Asset Management Systems and Standards Team with any queries related to this standard.

Record of revisions

Version	Description	Date
4.0	Major update: Section fully revised to reflect current construction requirements.	02/04/2026

D-OHC-E100-SD-001	POLE SUBSTATION CONSTRUCTIONS. ASSEMBLIES EXPLANATION
D-OHC-E100-SD-002	POLE SUBSTATION CONSTRUCTIONS. GENERAL NOTES & CODES
D-OHC-E101-SD-001	POLE SUBSTATION CONSTRUCTIONS. SUB-ASSEMBLIES. TRANSFORMERS MOUNTING OPTIONS
D-OHC-E101-SD-002	POLE SUBSTATION CONSTRUCTIONS. SUB-ASSEMBLIES. HV LEADS
D-OHC-D101-SD-003	POLE SUBSTATION CONSTRUCTIONS. SUB-ASSEMBLIES. TRANSPOSITION BRACKET 1-PHASE
D-OHC-D101-SD-004	POLE SUBSTATION CONSTRUCTIONS. SUB-ASSEMBLIES. TRANSPOSITION BRACKET 3-PHASE
D-OHC-E101-SD-005	POLE SUBSTATION CONSTRUCTIONS. SUB-ASSEMBLIES. LV LEADS AND BUSHING CONNECTIONS. 1-PHASE TRANSFORMERS
D-OHC-E101-SD-006	POLE SUBSTATION CONSTRUCTIONS. SUB-ASSEMBLIES. LV LEADS AND BUSHING CONNECTIONS. 25-315 kVA 3-PHASE TRANSFORMERS
D-OHC-E101-SD-007	POLE SUBSTATION CONSTRUCTIONS. SUB-ASSEMBLIES. LV LEADS AND BUSHING CONNECTIONS. 500 kVA 3-PHASE TRANSFORMERS
D-OHC-E102-SD-001	POLE SUBSTATION CONSTRUCTIONS. SINGLE WOOD POLE SUBSTATION. INTEGRATED HV FUSING. 1-PHASE 11kV OR 22 kV
D-OHC-D102-SD-002	POLE SUBSTATION CONSTRUCTIONS. SINGLE WOOD POLE SUBSTATION. BILL OF MATERIALS. 1-PHASE 11kV OR 22kV
D-OHC-D103-SD-001	POLE SUBSTATION CONSTRUCTIONS. SINGLE WOOD POLE SUBSTATION. INTEGRATED HV FUSING. 3-PHASE 25 – 100kVA 11kV OR 22 kV
D-OHC-D103-SD-002	POLE SUBSTATION CONSTRUCTIONS. SINGLE TITAN POLE SUBSTATION. INTEGRATED HV FUSING. 3-PHASE 200 – 500kVA 11kV OR 22 kV
D-OHC-D103-SD-003	POLE SUBSTATION CONSTRUCTIONS. SINGLE POLE SUBSTATION. BILL OF MATERIALS. 3-PHASE 11kV
D-OHC-D103-SD-004	POLE SUBSTATION CONSTRUCTIONS. SINGLE POLE SUBSTATION. BILL OF MATERIALS. 3-PHASE 22kV
D-OHC-D104-SD-001	POLE SUBSTATION CONSTRUCTIONS. SINGLE WOOD POLE SUBSTATION. REMOTE HV FUSING. 1-PHASE 11kV OR 22 kV
D-OHC-D104-SD-002	POLE SUBSTATION CONSTRUCTIONS. SINGLE WOOD POLE SUBSTATION. REMOTE HV FUSING. 3-PHASE 25 – 100kVA 11kV OR 22 kV
D-OHC-D104-SD-003	POLE SUBSTATION CONSTRUCTIONS. SINGLE TITAN POLE SUBSTATION. REMOTE HV FUSING. 3-PHASE 200 – 500kVA 11kV OR 22 kV

D-OHC-D105-SD-001	POLE SUBSTATION CONSTRUCTIONS. SINGLE POLE SUBSTATION. SWER ISOLATING TRANSFORMER 12.7 kV
D-OHC-D105-SD-002	POLE SUBSTATION CONSTRUCTIONS. SINGLE POLE SUBSTATION. SWER DISTRIBUTION TRANSFORMER 12.7 kV
D-OHC-D105-SD-003	POLE SUBSTATION CONSTRUCTIONS. SINGLE POLE SUBSTATION. SWER DISTRIBUTION TRANSFORMER BILL OF MATERIALS 12.7 kV
D-OHC-D106-SD-001	POLE SUBSTATION CONSTRUCTIONS. SINGLE POLE SUBSTATION. U/G HV SUPPLIED. 11kV OR 22 kV
D-OHC-D107-SD-001	POLE SUBSTATION CONSTRUCTIONS. SINGLE POLE SUBSTATION. LV BRIDGING ARRANGEMENTS. 1-PHASE & 2-PHASE LV ABC
D-OHC-D107-SD-002	POLE SUBSTATION CONSTRUCTIONS. SINGLE POLE SUBSTATION. LV BRIDGING ARRANGEMENTS. 1-PHASE & 2-PHASE LV BARE
D-OHC-D107-SD-003	POLE SUBSTATION CONSTRUCTIONS. SINGLE POLE SUBSTATION. LV BRIDGING ARRANGEMENTS. 3-PHASE LV ABC
D-OHC-D107-SD-004	POLE SUBSTATION CONSTRUCTIONS. SINGLE POLE SUBSTATION. LV BRIDGING ARRANGEMENTS. 3-PHASE LV BARE
D-OHC-D108-SD-001	POLE SUBSTATION CONSTRUCTIONS. SINGLE POLE SUBSTATION. FUSE TABLES
	LIST OF BOMs

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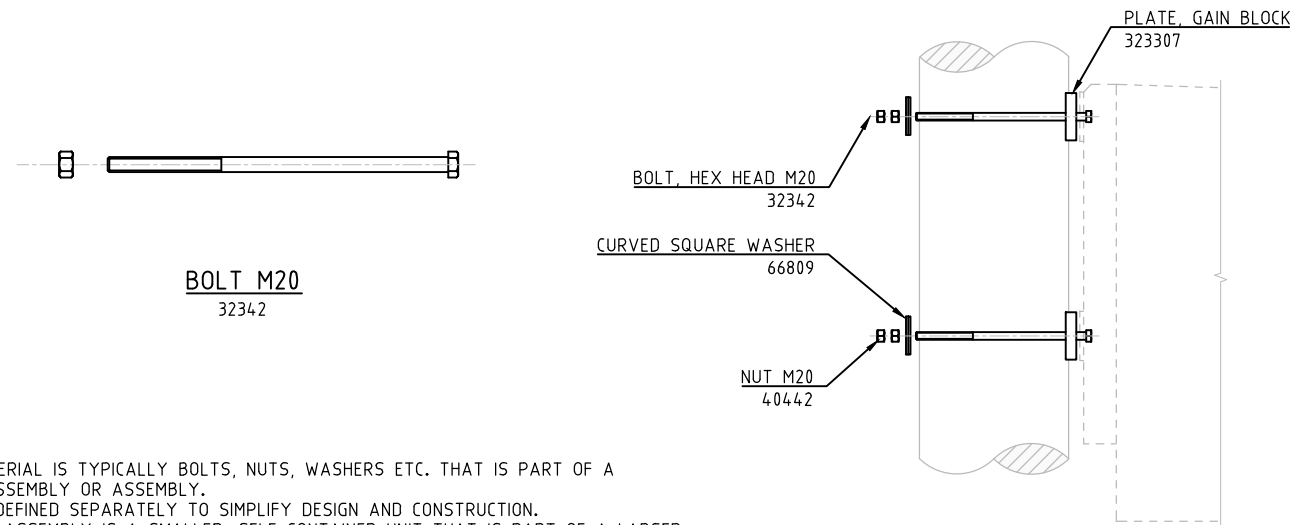
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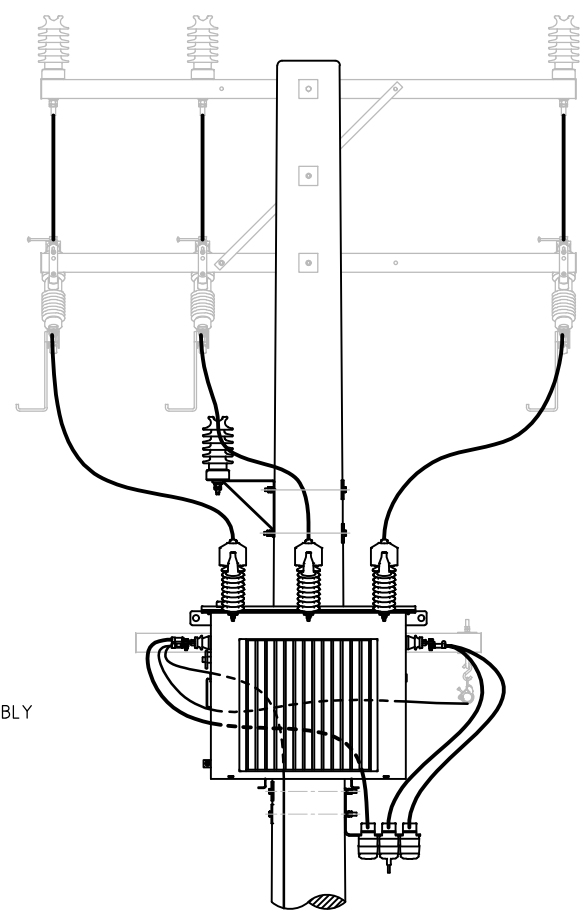
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- NOTES:**
1. A MATERIAL IS TYPICALLY BOLTS, NUTS, WASHERS ETC. THAT IS PART OF A SUB-ASSEMBLY OR ASSEMBLY. IT'S DEFINED SEPARATELY TO SIMPLIFY DESIGN AND CONSTRUCTION.
 2. A SUB-ASSEMBLY IS A SMALLER, SELF-CONTAINED UNIT THAT IS PART OF A LARGER ASSEMBLY. IT'S DEFINED SEPARATELY TO SIMPLIFY DESIGN AND CONSTRUCTION.
 3. AN ASSEMBLY IS THE MAJOR STRUCTURE THAT IS MADE UP OF MULTIPLE PARTS OR SUB-ASSEMBLIES AND MATERIAL. IT REPRESENTS THE COMPLETE UNIT THAT IS INSTALLED IN THE FIELD.
 4. MATERIAL NUMBERS TYPICALLY START WITH 1XXXXX, 2XXXXX, 3XXXXX, 4XXXXX, 5XXXXX, 8XXXXX, OR 0XXXXX (LEADING ZERO IS OFTEN NOT SHOWN).
 5. SUB-ASSEMBLY DESCRIPTIONS BEGIN WITH "OH/" AND ARE ASSOCIATED WITH 710XXX NUMBERS.
 6. ASSEMBLY DESCRIPTIONS BEGIN WITH "11", "12.7", "22", AND ALSO USE 710XXX NUMBERS.

TRANSFORMER MOUNTING ASSEMBLY 100-500kVA
710232



MATERIALS	DESCRIPTION	TYPE	710232
32342	BOLT, HEX HEAD M20x450mm C/W WASHER & NUT	EA	2
323307	PLATE, GAIN BLOCK, 125mm CROSS ARM	EA	2

MATERIALS	DESCRIPTION	TYPE	710253
710232	OH/TX/MOUNTING/100-500kVA (OH/TX/MOUNTING/100-500)	EA	1
710082	OH, 11KV-22KV, INSULATOR, A-BRACKET (OH/HV/INSUL/A-BKT/POLE)	EA	1
710590	OH, 22KV, INSULATORS, INTER TO STEEL XARM (OH/22/INSUL/I/ST)	EA	1
710234	OH, TRANSFORMER HV LEAD (OH/TX/HVLEAD)	EA	3
710237	OH, TRANSFORMER LV LEAD, WIRE, BLDNG 150mm ² x 37/2.25 XLPE BLACK	EA	2
32215	BOLT, HEX HEAD M12x65mm GAL. C/W NUT	EA	4
40440	NUT, HEX M12 THREAD GALVANISED STEEL	EA	1
426205	T/FORMER, 22kV/433-250V 500kVA x 3P MEPS	EA	1

MATERIAL

SUB-ASSEMBLY

ASSEMBLY, SHOWN ON THE DRAWING

EMF/PDF CREATION DATE 01/04/2026

ALTERATIONS ORIGINAL ISSUE

REFERENCE
NEW DRAWING

DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	T.AMYZHA
CHECKED BY	A.ABESSAM
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2026

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TITLE POLE SUBSTATION CONSTRUCTIONS ASSEMBLIES EXPLANATION		SCALE NTS	BM REV C
D - OHC - E100 - SD - 001		A4	REVISION C

1 2 3 4 5 6 7

POLE SUBSTATIONS CONSTRUCTION CODES

FOR SUB-ASSEMBLIES:

OH

DENOTER

TX

TRANSFORMER

TX - TRANSFORMER

MOUNTING

TX PART OF INTEREST

MOUNTING - TX MOUNTING
 HV LEAD - HV LEAD INTO TX
 LV LEAD - LV LEAD OUT OF TX
 TBRACKET - TRANSPOSITION BRACKET

25-63

SIZE OF TX OR CABLE

25-63 - 25-63kVA TX
 100-500 - 100-500kVA TX
 95 - 95mm CABLE
 150 - 150mm CABLE
 1 - SINGLE PHASE
 3 - THREE PHASE

2C

ADDITIONAL

2C - 2 CORE CABLE
 4C - 4 CORE CABLE

FOR ASSEMBLIES:

11

VOLTAGE

11 - 11kV
 22 - 22kV
 12.7 - SWER

TX

TRANSFORMER

TX - TRANSFORMER
 TXF - INTEGRATED HV FUSE
 TXRF - HV FUSE

3

PHASES

1 - SINGLE PHASE + NEUTRAL
 3 - THREE PHASES + NEUTRAL

100

SIZE (kVA)

25, 50, 63, 100, 200,
 315, 500

ISO

ADDITIONAL

ISO - SWER ISOLATION TRANSFORMER
 1CCT - SINGLE CIRCUIT
 2CCT-TWO CIRCUITS


GENERAL NOTES FOR POLE SUBSTATION CONSTRUCTIONS:

- NEUTRAL BUSHING TO HAVE LOCK NUT AND BOLT TO BE LONG ENOUGH SO THE LOCKING NUT CAN BE FULLY TIGHTENED ON TO THE BOLT WITH 1 CLEAR THREAD SHOWING.
- WHEN THE SUBSTATION IS AT THE END OF A HV SPUR LINE, THE TRANSFORMER SHOULD BE MOUNTED ON THE SIDE OF THE POLE OPPOSITE THE HV SPUR LINE - SINGLE CUSTOMER TRANSFORMERS ON PRIVATE PROPERTY EXCEPTED WHERE HV FUSES ARE REMOTELY LOCATED. INSTALL "T" NUMBER AT THE TRANSFORMER POLE AND ADD A "C" NUMBER FOR THE FUSES ON THE TEE OFF POLE.
- TRANSFORMERS SHALL NOT BE INSTALLED ON STOBIE POLES.
- TO ACHIEVE SEPARATION BETWEEN BARE LV CONDUCTORS AND TRANSFORMER TANK, 1-PHASE OPEN WIRE LV SYSTEMS CAN USE A LVIS FRP CROSSARM S.I.323215. 2-PHASE AND 3-PHASE OPEN WIRE WILL REQUIRE A LVISL FRP CROSSARM S.I.323217.
- WHERE THERE IS A CONFLICT WITH A STAY OR ADDITIONAL HEIGHT IS REQUIRED LVABC CAN BE MOUNTED ON A CROSSARM AS SHOWN IN THIS SECTION.
- TRANSFORMERS CAN BE INSTALLED ON EXISTING WOOD POLES PROVIDING THE POLE DEPTH AND FOUNDATION MEETS THE STANDARDS FOR THE INSTALLATION. REFER TO POLE SECTION OF THIS STANDARD AND DISTRIBUTION OVERHEAD DESIGN STANDARD FOR POLE DETAILS.
- WHERE NEW 3-PHASE TRANSFORMERS ARE INSTALLED WITHIN AN EXISTING NETWORK THE SIZE AND CORRECT HV PHASING NEEDS TO BE CONSIDERED. GENERALLY, THE SIZE NEEDS TO BE SAME OR LARGER THAN ADJACENT TRANSFORMERS TO ALLOW LOAD TRANSFERS IN THE LV NETWORK WHEN REQUIRED. THE HV CONNECTIONS ACROSS "A, B AND C" NEED TO BE THE SAME AS ADJACENT TRANSFORMERS TO ALLOW THE LV CIRCUITS TO PHASE OUT AT LV OPEN POINTS.
- TO ACHIEVE THE CORRECT HV PHASING / CONNECTIONS DESIGNERS NEED TO CONSIDER THE FOLLOWING:
 - TRACE OUT THE CONNECTIONS OF THE ADJACENT TRANSFORMERS.
 - NOMINATE THE SIDE OF POLE TO INSTALL IT ON.
 - SPECIFY CONNECTIONS AT A TEE OFF POLE.
 - TRANSPOSE LEADS BETWEEN THE HV FUSES AND OVERHEAD MAINS OR TRANSFORMER IF NOT TOO COMPLEX.
 - USE A TRANSPOSITION BRACKET TO REPLACE THE INSULATOR BRACKET.
- IF A LARGE TRANSFORMER IS INSTALLED ON A TEE OFF CLOSE TO AN EXISTING LV NETWORK, IT SHALL BE CONNECTED VIA AN LV EXTENSION BACK TO THE MAIN LV NETWORK AND PHASED OUT TO PROVIDE FLEXIBILITY TO THE NETWORK. AS ABOVE THE TRANSFORMER NEEDS TO MATCH THE SIZES OF THE ADJACENT TRANSFORMERS WITH THE SAME HV CONNECTIONS.
- TRANSFORMER INSTALLATIONS SHALL NOT HAVE LV OPEN POINTS OR CIRCUITS ATTACHED TO THE POLE FROM AN ADJACENT TRANSFORMER. THE LV OPEN POINT SHALL BE ON AN ADJACENT POLE UNLESS PRIOR APPROVAL IS OBTAINED FROM ENGINEERING.
- THE MINIMUM CLEARANCE FROM THE HV CABLE CRUTCH TO GROUND LEVEL SHALL BE 5.5m, UNLESS OTHERWISE SPECIFIED BY THE DESIGNER.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

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ALTERATIONS

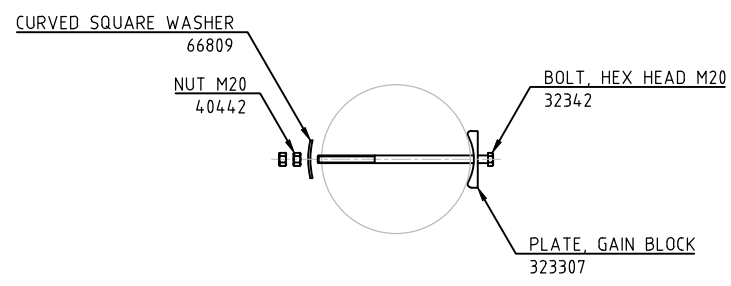
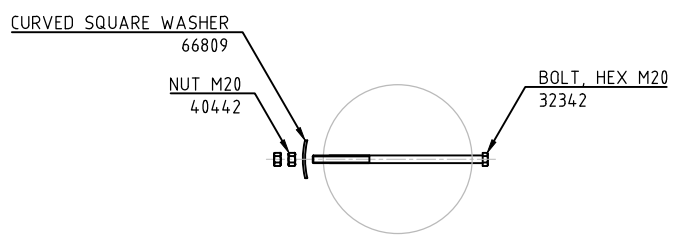
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BM DWG NO D-OHC-E100-SD-002

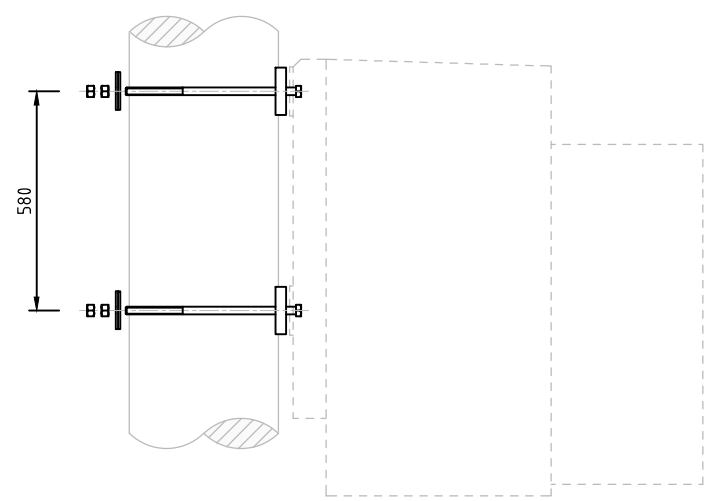
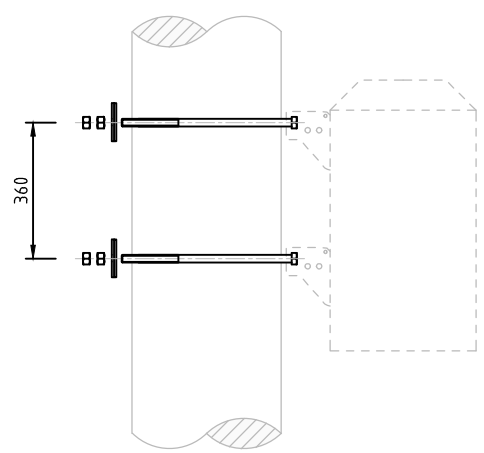
BM REV C

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TRANSFORMER MOUNTING ASSEMBLY 25-63kVA
710231

TRANSFORMER MOUNTING ASSEMBLY 100-500kVA
710232

E

MATERIALS	DESCRIPTION	TYPE	710231	710232
			OH/TX/MOUNTING/25-63	OH/TX/MOUNTING/100-500
32342	BOLT, HEX HEAD M20x450mm C/W NUT	EA	2	2
323307	PLATE, GAIN BLOCK, 125mm CROSS ARM	EA	2	2
66809	WASHER, CURVED SQUARE M20 100mm	EA	2	2
40442	NUT, HEX M20 THREAD GALVANISED STEEL	EA	2	2

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 01/04/2026

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REFERENCE	
NEW DRAWING	

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DRAFTING CHECK	MEGAVAR PTY LTD
DESIGNED BY	T.JOHNSON
CHECKED BY	A.JUSSAN
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2024

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TITLE POLE SUBSTATION SUB-ASSEMBLIES TRANSFORMERS MOUNTING OPTIONS			SCALE NTS
D - OHC - E101 - SD - 001			REVISION C

BM DWG NO D-OHC-E101-SD-001

BM REV C

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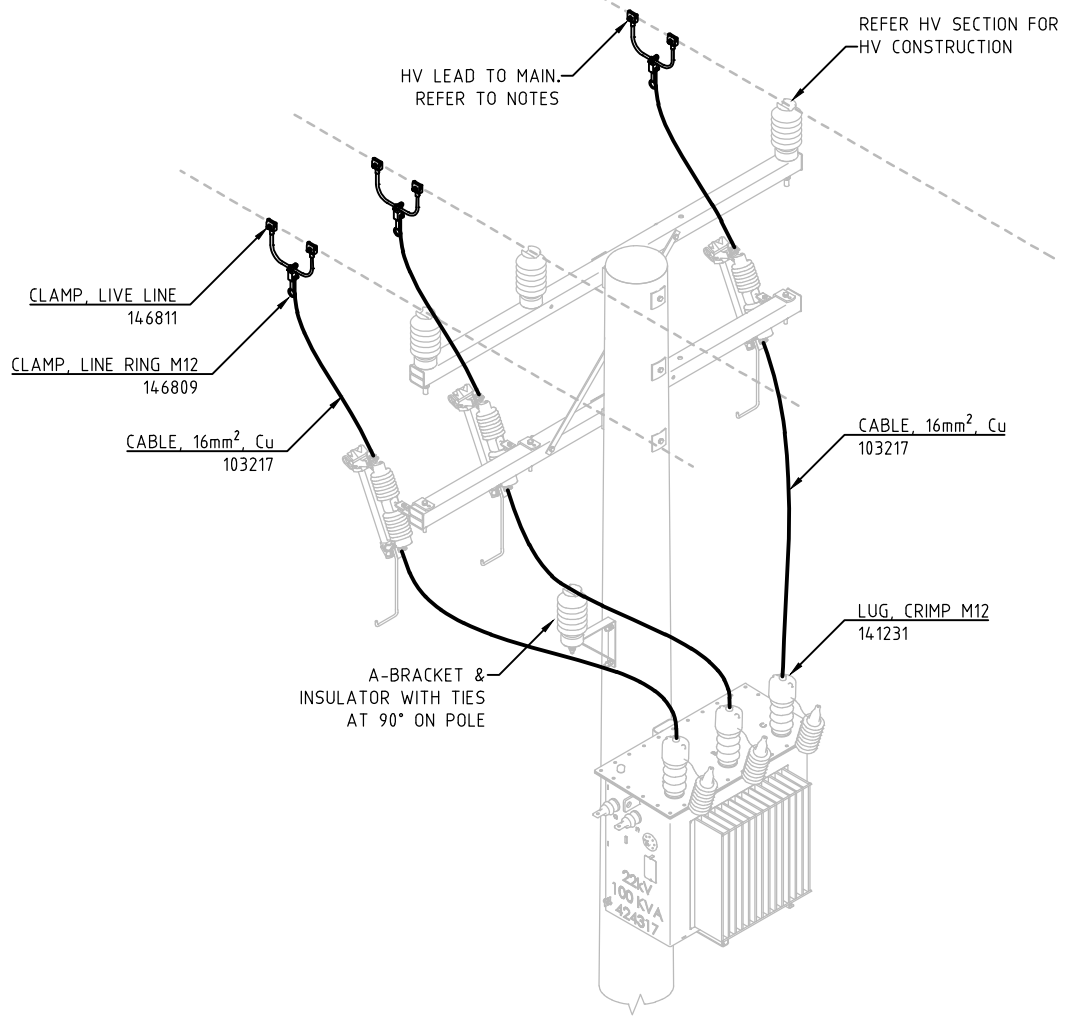
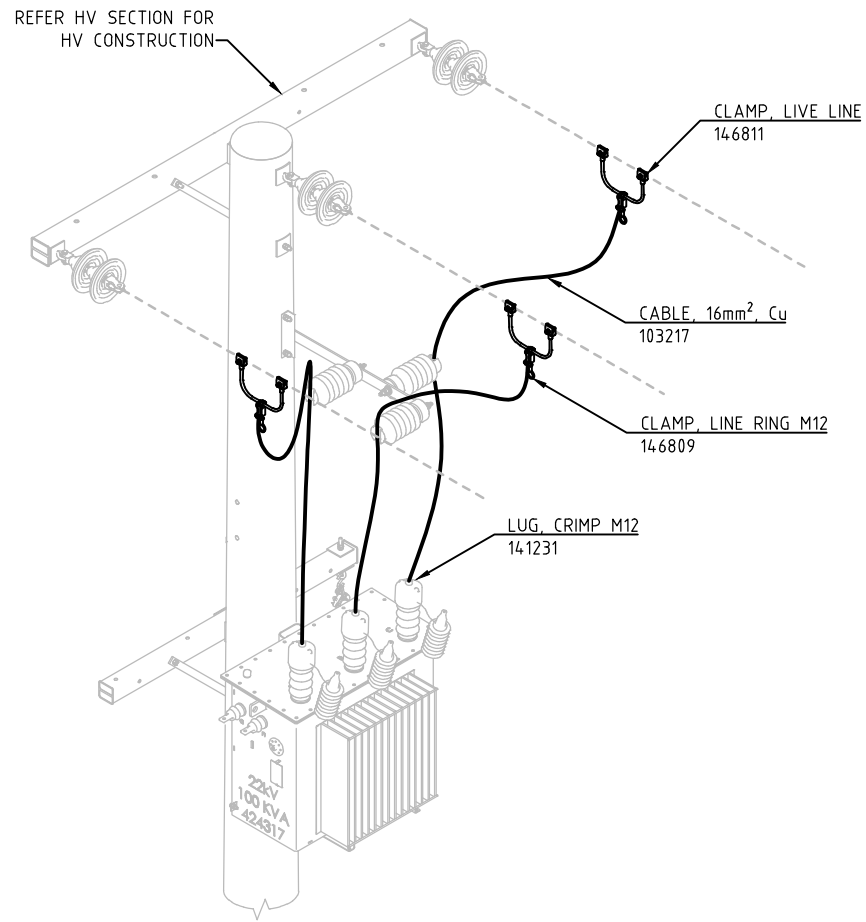
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MATERIALS	DESCRIPTION	TYPE	710234
			OH/TX/HVLEAD
103217	CABLE, 1CORE x 16mm ² x 7/1.70 x 0.6/1 V75	M	4
141231	LUG, CRIMP TERMINAL M12 x 16mm ² COPPER	EA	1
146811	CLAMP, LIVE LINE 2 BOLT STIRRUP	EA	1
146809	CLAMP, LIVE LINE RING FITTING M12 - B24T	EA	1

NOTES:

- PREFERRED CONNECTIONS TO MAINS ARE LIVE LINE CLAMPS & DEE'S FOR INCREASED SAFE APPROACH DISTANCE. REFER TO CONDUCTORS, CABLES, CONNECTORS SECTION FOR FURTHER DETAILS.
- JOINTING COMPOUND TO BE USED ON ALL ALUMINIUM JOINTS.
- ALL TRANSFORMERS UP TO 500kVA SHALL USE 16mm²/0.6/1kV INSULATED COPPER CONDUCTOR.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

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ALTERATIONS ORIGINAL ISSUE

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	DRAFTING CHECK MEGAVAR PTY LTD
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CHECKED BY	A.JUSSAN
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2026

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NEW DRAWING: SUPERSEDES D-OHC-F018-SD-001

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DRAFTING CHECK	MEGAVAR PTY LTD
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DATE APPROVED	02-01-2026

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TITLE POLE SUBSTATION CONSTRUCTIONS SUB-ASSEMBLIES HV LEADS			SCALE NTS
D - OHC - E101 - SD - 002			REVISION B

DWG STATUS STANDARD

BM DWG NO D-OHC-E101-SD-002

BM REV B

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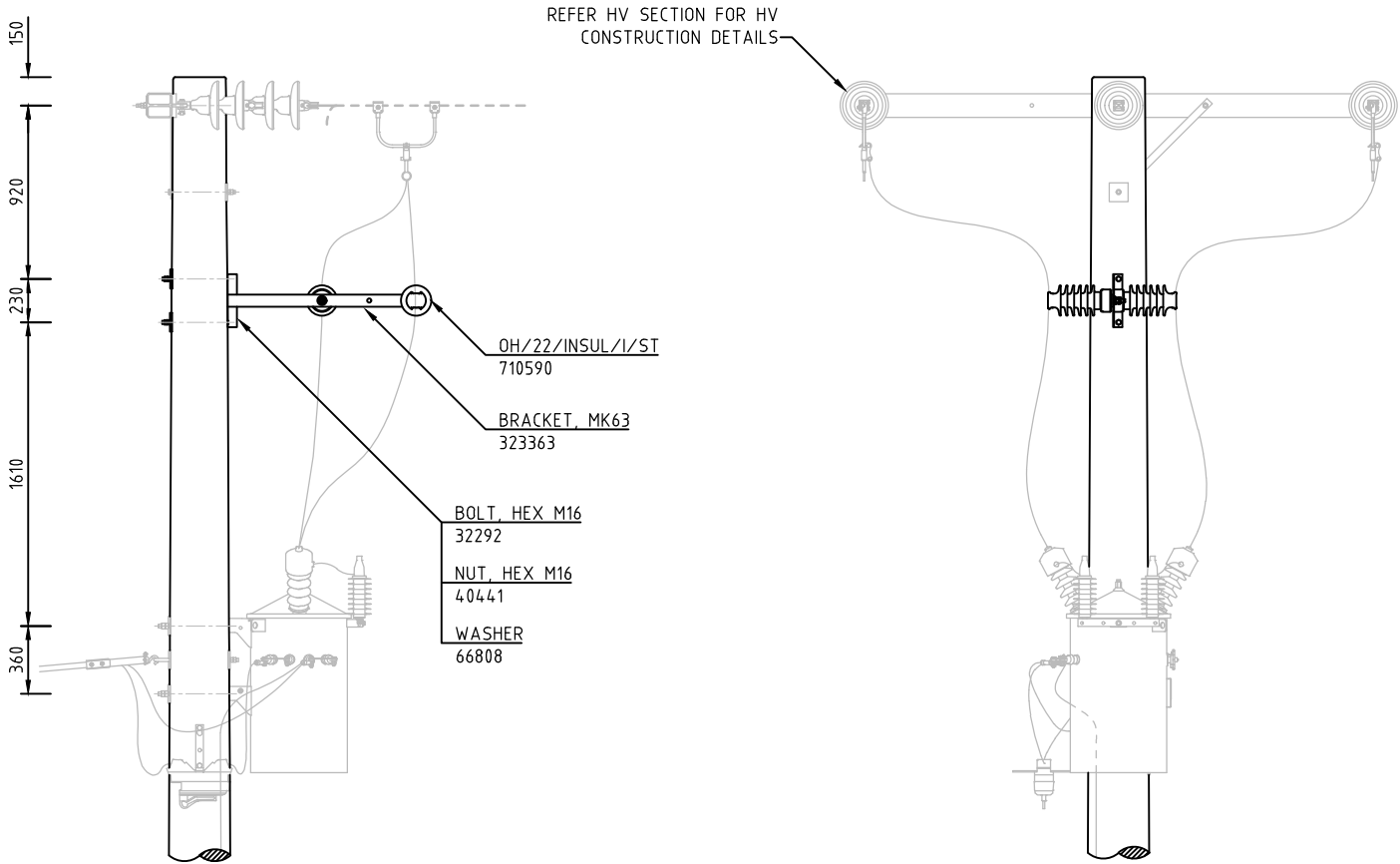
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ALTERATIONS



USE RELEVANT TRANSFORMER ASSEMBLIES AND ADD THESE COMPONENTS FOR REMOTE FUSED TRANSFORMERS.

MATERIALS	DESCRIPTION	710776	
		OH/TX/TBRACKET/1	
710590	OH, 22kV, INSULATORS, INTER TO STEEL XARM, (OH/22/INSUL/1/ST)		2
323363	BRACKET, ANGLE TRANSPOSITION MK63 GAL.		1
32292	BOLT, HEX HEAD M16 x 450mm GAL. C/W NUT		2
66808	WASHER, CURVED SQUARE M16 100mm		2
40441	NUT, HEX M16 THREAD GALVANISED STEEL		2

- NOTES:
1. ENSURE THAT LOCK NUTS ARE INSTALLED ON ALL BOLTS PASSING THROUGH POLE.
 2. REFER D-OHC-E100-SD-002 FOR GENERAL NOTES.
 3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

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BM DWG NO D-OHC-E101-SD-003

BM REV C

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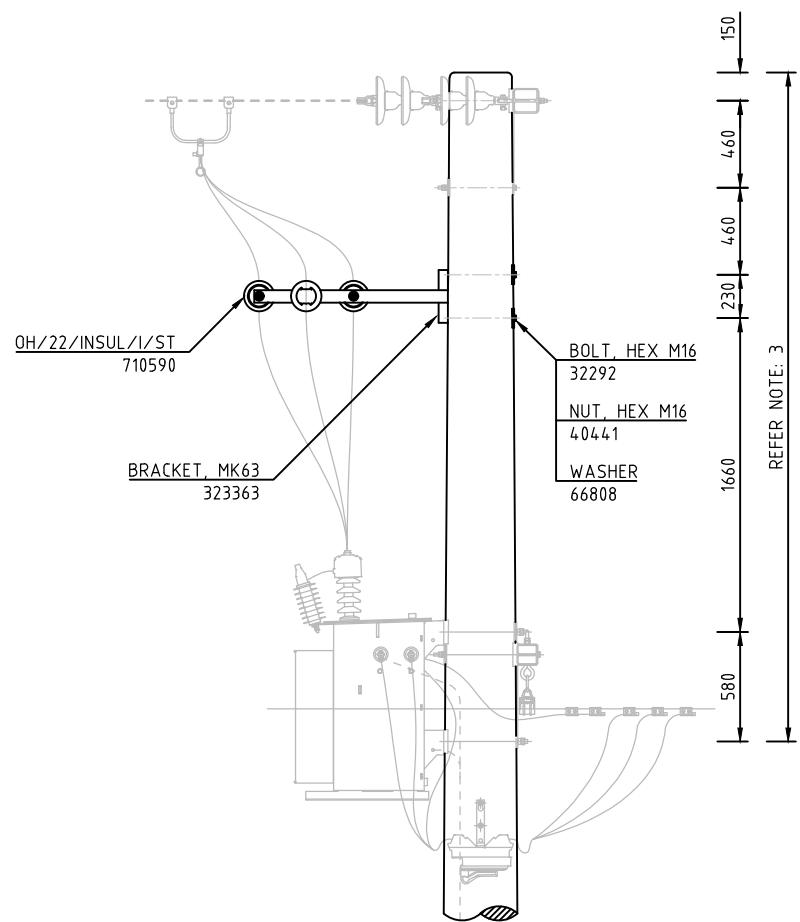
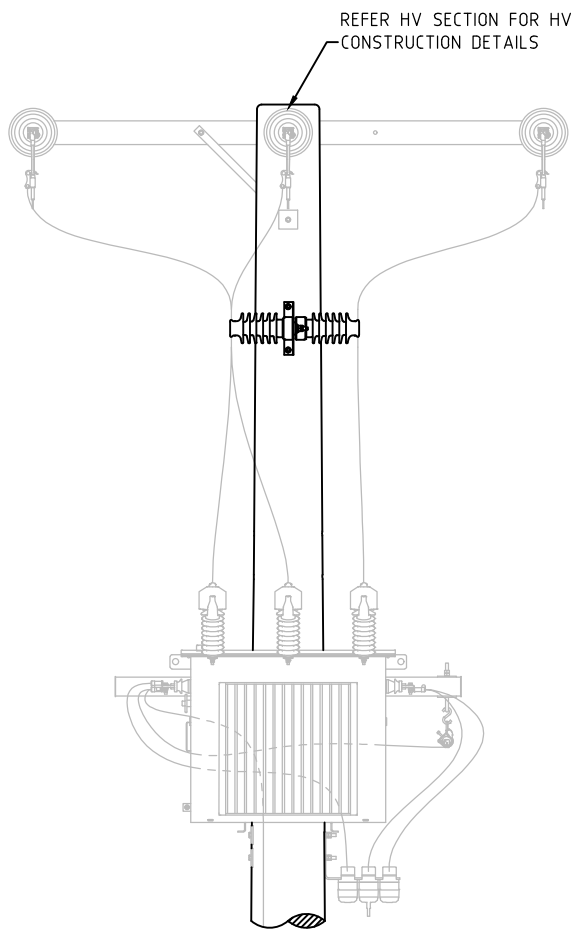
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USE RELEVANT TRANSFORMER ASSEMBLIES AND ADD THESE COMPONENTS FOR REMOTE FUSED TRANSFORMERS.

MATERIALS	DESCRIPTION	710777
		OH/TX/TBRACKET/3
710590	OH, 22kV, INSULATORS, INTER TO STEEL XARM, (OH/22/INSUL/1/ST)	3
323363	BRACKET, ANGLE TRANSPOSITION MK63 GAL.	1
32292	BOLT, HEX HEAD M16 x 450mm GAL. C/W NUT	2
66808	WASHER, CURVED SQUARE M16 100mm	2
40441	NUT, HEX M16 THREAD GALVANISED STEEL	2

NOTES:

- ENSURE THAT LOCK NUTS ARE INSTALLED ON ALL BOLTS PASSING THROUGH POLE.
- REFER D-OHC-E100-SD-002 FOR GENERAL NOTES.
- DIMENSIONS BASED ON STANDARD TITAN POLE (12.5m EQUIPMENT POLE) HOLE SPACINGS.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

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ALTERATIONS ORIGINAL ISSUE

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NEW DRAWING	

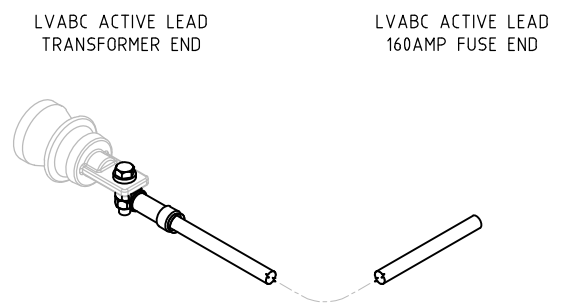
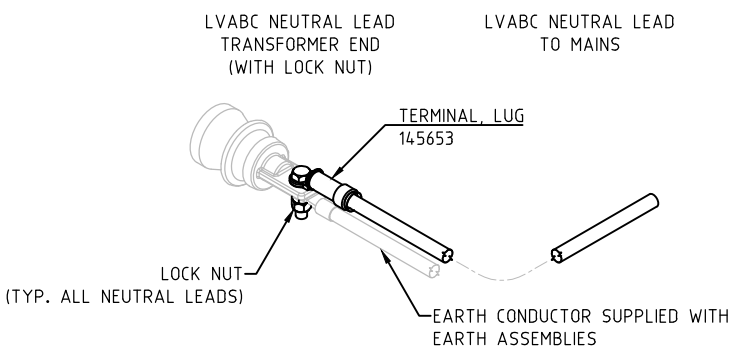
DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	T.AMYZHA
CHECKED BY	A.JUSSAN
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2026

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TITLE POLE SUBSTATION CONSTRUCTIONS SUB-ASSEMBLIES TRANSPOSITION BRACKET 3-PHASE			SCALE NTS A4
D - OHC - E101 - SD - 004			REVISION C

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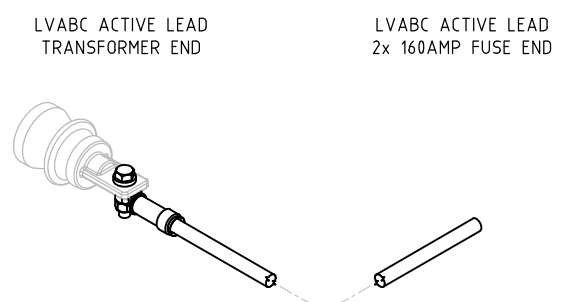
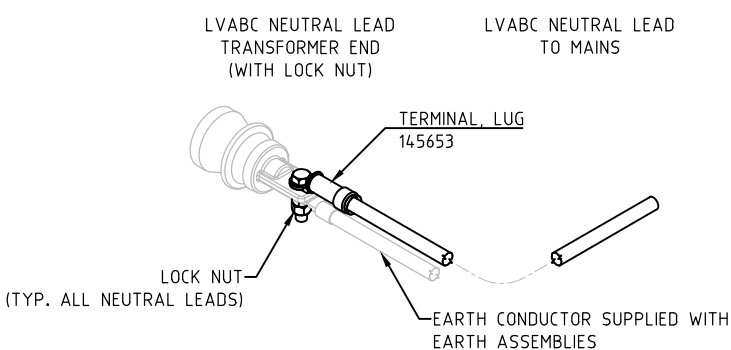
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1-PHASE TRANSFORMER LV LEADS USING 160AMP FUSE BASE FOR 1-PHASE CONFIGURATION			
TRANSFORMER	NEUTRAL (mm ²)	ACTIVE (mm ²)	BUSHING BOLT SIZE M12
25kVA 1-PH	1x 95 LVABC	1x 95 LVABC	50



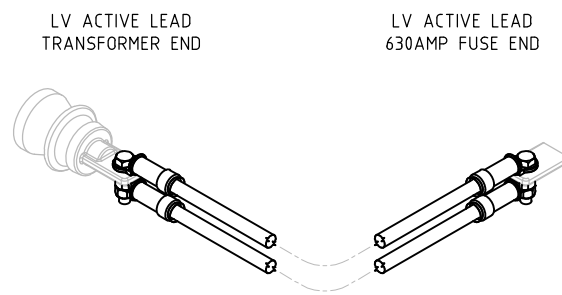
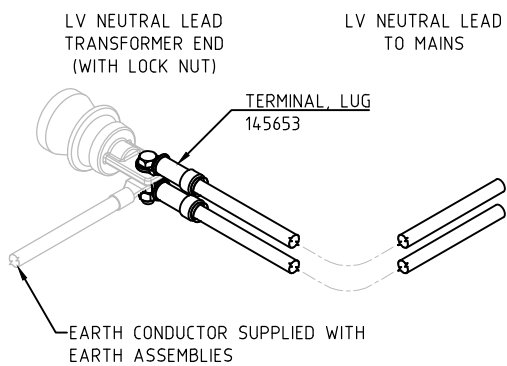
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1-PHASE TRANSFORMER LV LEADS USING 2x 160AMP FUSE BASES FOR 2-PHASE CONFIGURATION			
TRANSFORMER	NEUTRAL (mm ²)	ACTIVE (mm ²)	BUSHING BOLT SIZE M12
25kVA 1-PH	1x 95 LVABC	2x 95 LVABC	50
50kVA 1-PH	2x 95 LVABC	2x 95 LVABC	50
SPLIT PHASE TRANSFORMERS TO HAVE SINGLE LEAD TO EACH FUSE BASE			



D

50kVA 1-PHASE TRANSFORMER LV LEADS USING 630AMP FUSE BASE FOR 1-PHASE CONFIGURATION			
TRANSFORMER	NEUTRAL (mm ²)	ACTIVE (mm ²)	BUSHING BOLT SIZE M12
50kVA 1-PH	2x 95 LVABC	2x 95 LVABC	50



E

MATERIALS	DESCRIPTION	TYPE	710235	
			OH/TX/LVLEAD/95/2C	
145653	TERMINAL, LUG COMPRESSION M13 x 95mm ²	EA	2	
103003	CABLE, 2CORE x 95mm ² x 19/2.63 x 0.6/1 XLPE	M	3	

NOTES:

- 1-PHASE ACTIVE LEAD - NO LUG FOR 160AMP FUSE.
- 50kVA 1-PHASE REQUIRES DOUBLE LV LEADS.
- NEUTRAL BUSHING TO HAVE LOCK NUT AND BOLT BE LONG ENOUGH SO THE NUT CAN BE FULLY TIGHTENED ON THE BOLT.

EMF/PDF CREATION DATE 01/04/2026

ALTERATIONS ORIGINAL ISSUE

REFERENCE	
NEW DRAWING	

DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	T.ANYZHKA
CHECKED BY	A.JUSSAN
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2026

© Tasmanian Networks PTY. LTD. trading as TasNetworks ABL 24 107 357 299		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 POLE SUBSTATION CONSTRUCTIONS SUB-ASSEMBLIES LV LEADS AND BUSHING CONNECTIONS 1-PHASE TRANSFORMERS			SCALE NTS
D - OHC - E101 - SD - 005			REVISION A4 C

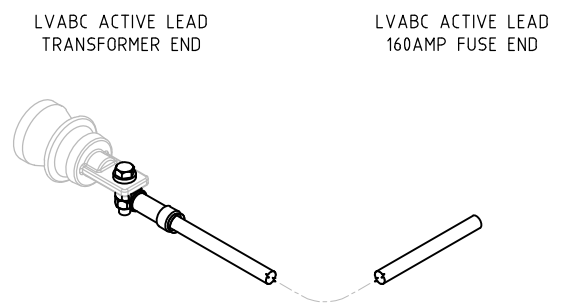
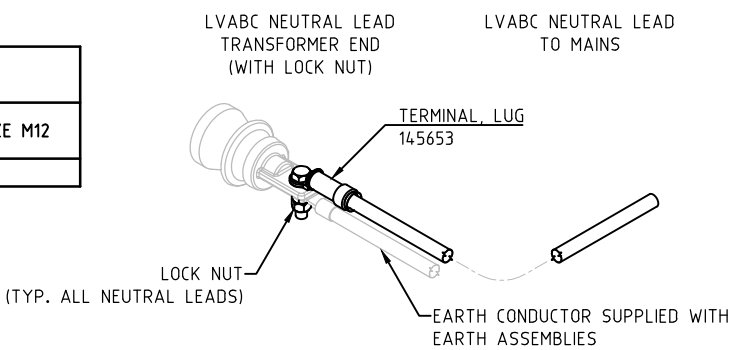
BM DWG NO D-OHC-E101-SD-005

BM REV C

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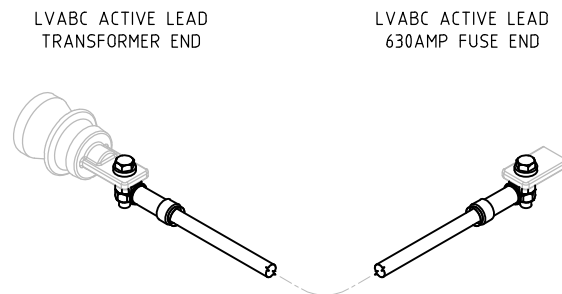
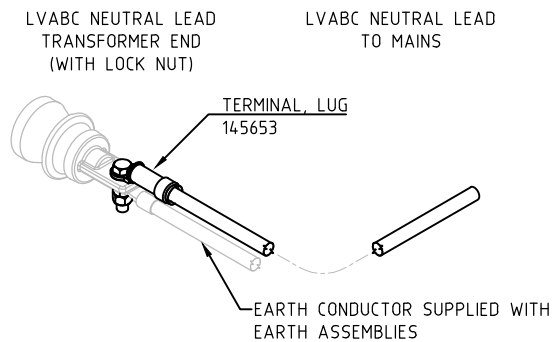
A

3-PHASE TRANSFORMER LV LEADS USING 160AMP FUSE BASE			
TRANSFORMER	NEUTRAL (mm ²)	ACTIVE (mm ²)	BUSHING BOLT SIZE M12
25-63kVA 3-PH	1x 95 LVABC	1x 95 LVABC	50



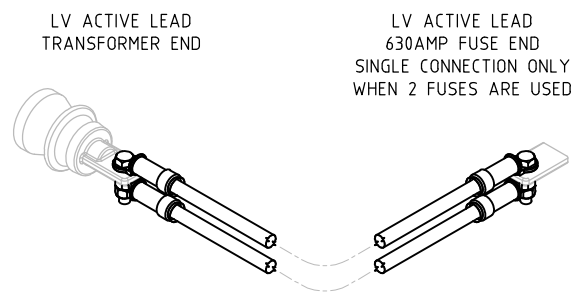
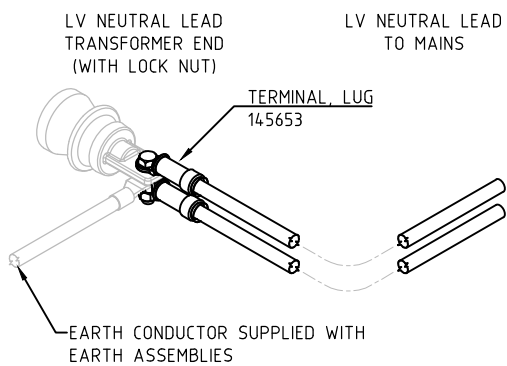
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3-PHASE TRANSFORMER LV LEADS USING 630AMP FUSE BASE			
TRANSFORMER	NEUTRAL (mm ²)	ACTIVE (mm ²)	BUSHING BOLT SIZE M12
100kVA	1x 95 LVABC	1x 95 LVABC	50
WHERE TRANSFORMERS SUPPLY AN UNDERGROUND CABLE THE NEUTRAL COPPER TAIL SHALL CONNECT DIRECT TO THE NEUTRAL BUSHING			



D

3-PHASE TRANSFORMER LV LEADS USING 630AMP FUSE BASE			
TRANSFORMER	NEUTRAL (mm ²)	ACTIVE (mm ²)	BUSHING BOLT SIZE M12
200 & 315kVA	2x 95 LVABC	2x 95 LVABC	50
WHERE TRANSFORMERS SUPPLY AN UNDERGROUND CABLE THE NEUTRAL COPPER TAIL SHALL CONNECT DIRECT TO THE NEUTRAL BUSHING			



E

MATERIALS	DESCRIPTION	TYPE	710236	
			OH/TX/LVLEAD/95/4C	
145653	TERMINAL, LUG COMPRESSION M13 x 95mm ²	EA	4	
103001	CABLE, 4CORE x 95mm ² x 19/2.63 x 0.6/1 XLPE	M	3	

NOTES:

- 25, 63 & 100kVA 3-PHASE ONLY REQUIRE SINGLE LEADS.
- 200 & 315kVA LEADS TO SHALL BE 2x 95 LVABC MIN.
- NEUTRAL BUSHING TO HAVE LOCK NUT AND BOLT BE LONG ENOUGH SO THE NUT CAN BE FULLY TIGHTENED ON THE BOLT.

EMF/PDF CREATION DATE 01/04/2026

ALTERNATIONS ORIGINAL ISSUE

REFERENCE	
NEW DRAWING	

TasNetworks	
DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	T.ANYZHA
CHECKED BY	A.JUSSAN
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2026

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TITLE		SCALE	
POLE SUBSTATION CONSTRUCTIONS SUB-ASSEMBLIES		NTS	
LV LEADS AND BUSHING CONNECTIONS 25-315kVA 3-PHASE TRANSFORMERS		A4	
D - OHC - E101 - SD - 006		REVISION B	

BM DWG NO D-OHC-E101-SD-006

BM REV B

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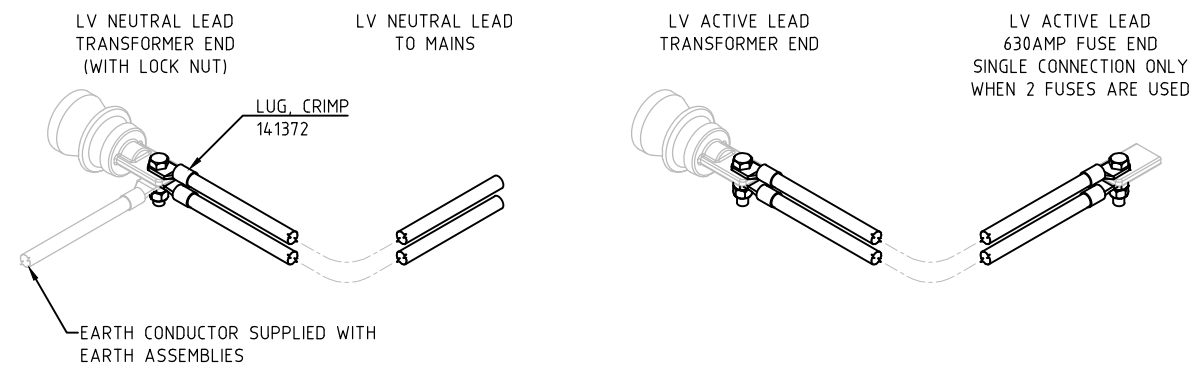
B

C

D

E

3-PHASE TRANSFORMER LV LEADS USING 630AMP FUSE BASE			
TRANSFORMER	NEUTRAL (mm ²)	ACTIVE (mm ²)	BUSHING BOLT SIZE M12
500kVA	2x 150Cu	2x 150Cu	65
WHERE TRANSFORMERS SUPPLY AN UNDERGROUND CABLE THE NEUTRAL COPPER TAIL SHALL CONNECT DIRECT TO THE NEUTRAL BUSHING			



MATERIALS	DESCRIPTION	710237	
		TYPE	OH/TX/LVLEAD/150
141372	LUG, CRIMP TERMINAL M12 x 150mm ² COPPER	EA	7
94195	WIRE, BLDNG 150mm ² x 37/2.25 XLPE BLACK	M	4

NOTES:

- 500kVA LEADS SHALL BE 2x COPPER 150mm² MIN.
- NEUTRAL BUSHING TO HAVE LOCK NUT AND BOLT BE LONG ENOUGH SO THE NUT CAN BE FULLY TIGHTENED ON THE BOLT.

EMF/PDF CREATION DATE 01/04/2026

ALTERATIONS ORIGINAL ISSUE

	REFERENCE NEW DRAWING
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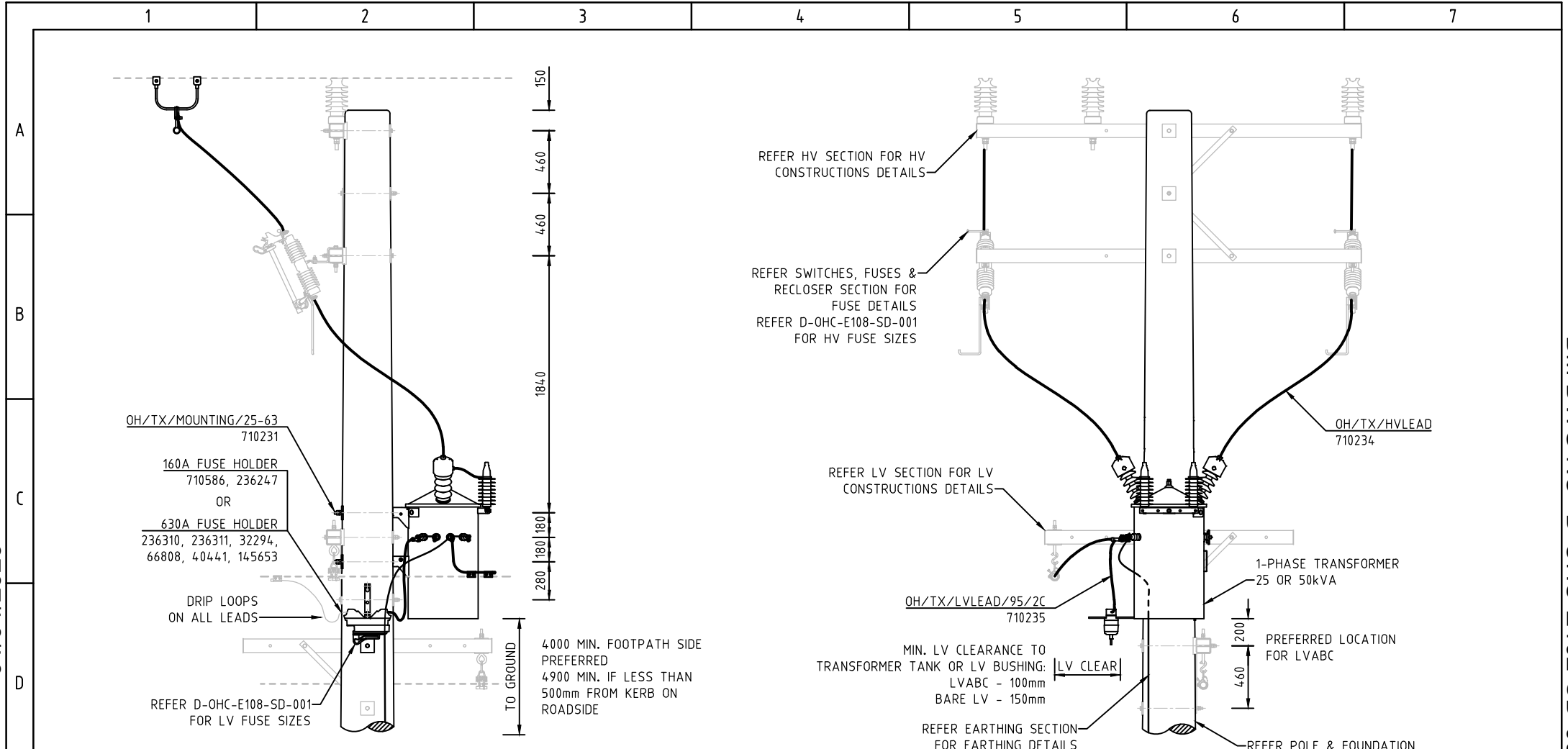
DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	T.AMYZHA
CHECKED BY	A.JUSSAN
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2024

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TITLE POLE SUBSTATION CONSTRUCTIONS SUB-ASSEMBLIES LV LEADS AND BUSHING CONNECTIONS 500 kVA 3-PHASE TRANSFORMERS			SCALE NTS
D - OHC - E101 - SD - 007			A4
			REVISION B

DWG STATUS STANDARD

BM DWG NO D-OHC-E101-SD-007

BM REV B



NOTES:

1. REFER D-OHC-E100-SD-002 FOR GENERAL NOTES
2. ENSURE THAT LOCK NUTS ARE INSTALLED ON ALL BOLTS PASSING THROUGH POLE.
3. REFER D-OHC-E102-SD-002 FOR BILL OF MATERIALS.
4. LV FUSING POSITIONED TO SUIT INSTALLATION.
5. SINGLE LV STRAIN OR INTERMEDIATE CROSSARM CAN BE FITTED IN POSITIONS AS SHOWN INCLUDING TOP OR BOTTOM TRANSFORMER BOLTS OR AS SPECIFIED BY DESIGN.
6. LV CROSSARM SHALL NOT BE INSTALLED ABOVE TOP TRANSFORMER BOLT.
7. REFER TO D-OHC-E101-SD-001 FOR TRANSFORMER HANGING DETAILS.
8. TRANSFORMER FOR SINGLE SUPPLY LOADS SHALL HAVE LV FUSE RATED TO SUIT MAXIMUM DEMAND. LV FUSE WILL BE THE SERVICE PROTECTION DEVICE (SPD). TRANSFORMER FUSES IN SERIES WITH AN SPD SHALL NOT BE USED.
9. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

ALTERNATIONS	ORIGINAL ISSUE	REFERENCE NEW DRAWING		© 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	SCALE NTS
						TITLE POLE SUBSTATION CONSTRUCTIONS SINGLE WOOD POLE SUBSTATION INTEGRATED HV FUSING 1-PHASE 11kV OR 22kV
			DRAWN: ANSS DRAFTING CHECK: ANSS DESIGNED BY: T.JOHYZHA CHECKED BY: A.ARUSSAM APPROVED BY: B.PAPALIA DATE APPROVED: 02-04-2026	TITLE D - OHC - E102 - SD - 001		

EMF/PDF CREATION DATE 01/04/2026

BM DWG NO D-OHC-E102-SD-001

BM REV C

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A

BILL OF MATERIALS FOR 11kV TRANSFORMERS			SINGLE CIRCUIT TRANSFORMERS		TWO CIRCUIT TRANSFORMERS	
MATERIALS	DESCRIPTION	TYPE	710238	710239	710676	710678
			11/TX/1/25/1CCT	11/TX/1/50/1CCT	11/TX/1/25/2CCT	11/TX/1/50/2CCT
710231	OH, TRANSFORMER MOUNTING, 25-63kVA (OH/TX/MOUNTING/25-63)	EA	1	1	1	1
710234	OH, TRANSFORMER HV LEAD (OH/TX/HVLEAD)	EA	2	2	2	2
710235	OH, TRANSFORMER LV LEAD, 95mm, 2 CORE (OH/TX/LVLEAD/95/2C)	EA	1	2	1	2
236247	SWITCH, ISOLATING POLE FUSE 6-95mm ² SZ-00	EA			1	1
236310	FUSE HOLDER, LV, NGK, 630A 1-Ph	EA		1		
236311	BRACKET, 630A NGK FUSE HOLDER	EA		1		
32292	BOLT, HEX HEAD M16 x 450mm GAL. C/W NUT	EA		2		
420914	T/FORMER, 11kV/500-250V 25kVA x 1P MEPS	EA	1		1	
421111	T/FORMER, 11kV/500-250V 50kVA x 1P MEPS	EA		1		1
145653	LUG, COMPRESSION INSULATED M13 95mm ²	EA		2		
66808	WASHER, CURVED SQUARE M16 100mm	EA		2		
40441	NUT, HEX M16 THREAD GALVANISED STEEL	EA		2		
710586	OH, 160A FUSE, WOOD POLE MOUNTED (OH/SERV/FUSE/POLE/160)	EA	1		1	1

B

C

BILL OF MATERIALS FOR 22kV TRANSFORMERS			SINGLE CIRCUIT TRANSFORMERS		TWO CIRCUIT TRANSFORMERS	
MATERIALS	DESCRIPTION	TYPE	710240	710241	710767	710769
			22/TX/1/25/1CCT	22/TX/1/50/1CCT	22/TX/1/25/2CCT	22/TX/1/50/2CCT
710231	OH, TRANSFORMER MOUNTING, 25-63kVA (OH/TX/MOUNTING/25-63)	EA	1	1	1	1
710234	OH, TRANSFORMER HV LEAD (OH/TX/HVLEAD)	EA	2	2	2	2
710235	OH, TRANSFORMER LV LEAD, 95mm, 2 CORE (OH/TX/LVLEAD/95/2C)	EA	1	2	1	2
236247	SWITCH, ISOLATING POLE FUSE 6-95mm ² SZ-00	EA			1	1
236310	FUSE HOLDER, LV, NGK, 630A 1-Ph	EA		1		
236311	BRACKET, 630A NGK FUSE HOLDER	EA		1		
32292	BOLT, HEX HEAD M16 x 450mm GAL. C/W NUT	EA		2		
423513	T/FORMER, 22kV/500-250V 25kVA x 1P MEPS	EA	1		1	
423605	T/FORMER, 22kV/500-250V 50kVA x 1P MEPS	EA		1		1
145653	LUG, COMPRESSION INSULATED M13 95mm ²	EA		2		
66808	WASHER, CURVED SQUARE M16 100mm	EA		2		
40441	NUT, HEX M16 THREAD GALVANISED STEEL	EA		2		
710586	OH, 160A FUSE, WOOD POLE MOUNTED (OH/SERV/FUSE/POLE/160)	EA	1		1	1


D

E

- NOTES:
1. ADD HV FUSE ASSEMBLY (710271 TO 710276) FOR INTEGRATED HV FUSING TRANSFORMER INSTALLATIONS.
 2. ADD TRANSPOSITION BRACKET SUB-ASSEMBLY (710776) FOR REMOTE FUSING INSTALLATIONS.

EMF/PDF CREATION DATE 01/04/2026

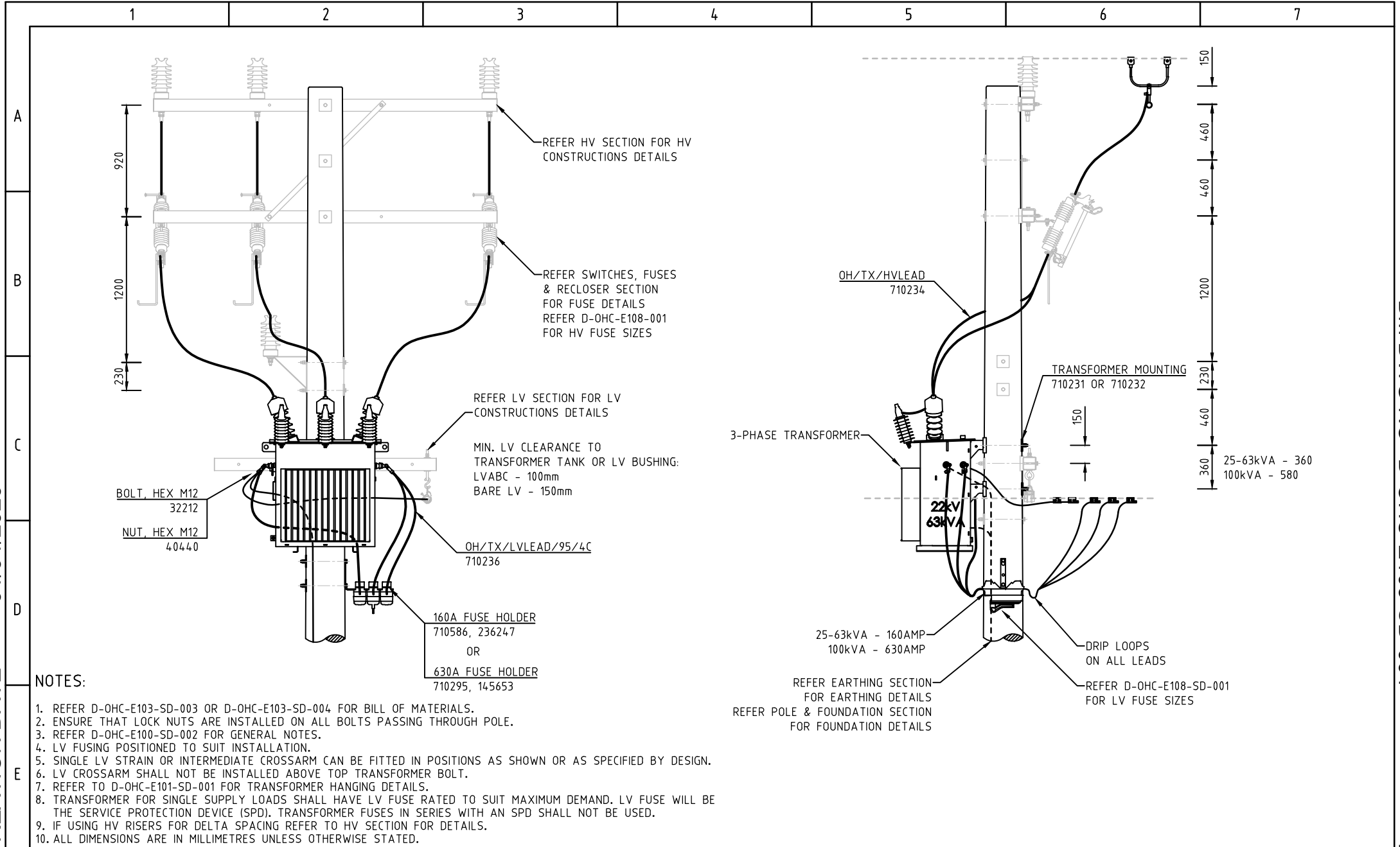
ALTERATIONS

ORIGINAL ISSUE	REFERENCE			© Tasmanian Networks PTY. LTD. trading as TasNetworks ABLN 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	
	NEW DRAWING			TITLE POLE SUBSTATION CONSTRUCTIONS SINGLE WOOD POLE SUBSTATION BILL OF MATERIALS 1-PHASE 11kV OR 22kV	SCALE NTS A4	REVISION B	

DWG STATUS STANDARD

BM DWG NO D-OHC-E102-SD-002

BM REV B



- NOTES:**
1. REFER D-OHC-E103-SD-003 OR D-OHC-E103-SD-004 FOR BILL OF MATERIALS.
 2. ENSURE THAT LOCK NUTS ARE INSTALLED ON ALL BOLTS PASSING THROUGH POLE.
 3. REFER D-OHC-E100-SD-002 FOR GENERAL NOTES.
 4. LV FUSING POSITIONED TO SUIT INSTALLATION.
 5. SINGLE LV STRAIN OR INTERMEDIATE CROSSARM CAN BE FITTED IN POSITIONS AS SHOWN OR AS SPECIFIED BY DESIGN.
 6. LV CROSSARM SHALL NOT BE INSTALLED ABOVE TOP TRANSFORMER BOLT.
 7. REFER TO D-OHC-E101-SD-001 FOR TRANSFORMER HANGING DETAILS.
 8. TRANSFORMER FOR SINGLE SUPPLY LOADS SHALL HAVE LV FUSE RATED TO SUIT MAXIMUM DEMAND. LV FUSE WILL BE THE SERVICE PROTECTION DEVICE (SPD). TRANSFORMER FUSES IN SERIES WITH AN SPD SHALL NOT BE USED.
 9. IF USING HV RISERS FOR DELTA SPACING REFER TO HV SECTION FOR DETAILS.
 10. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

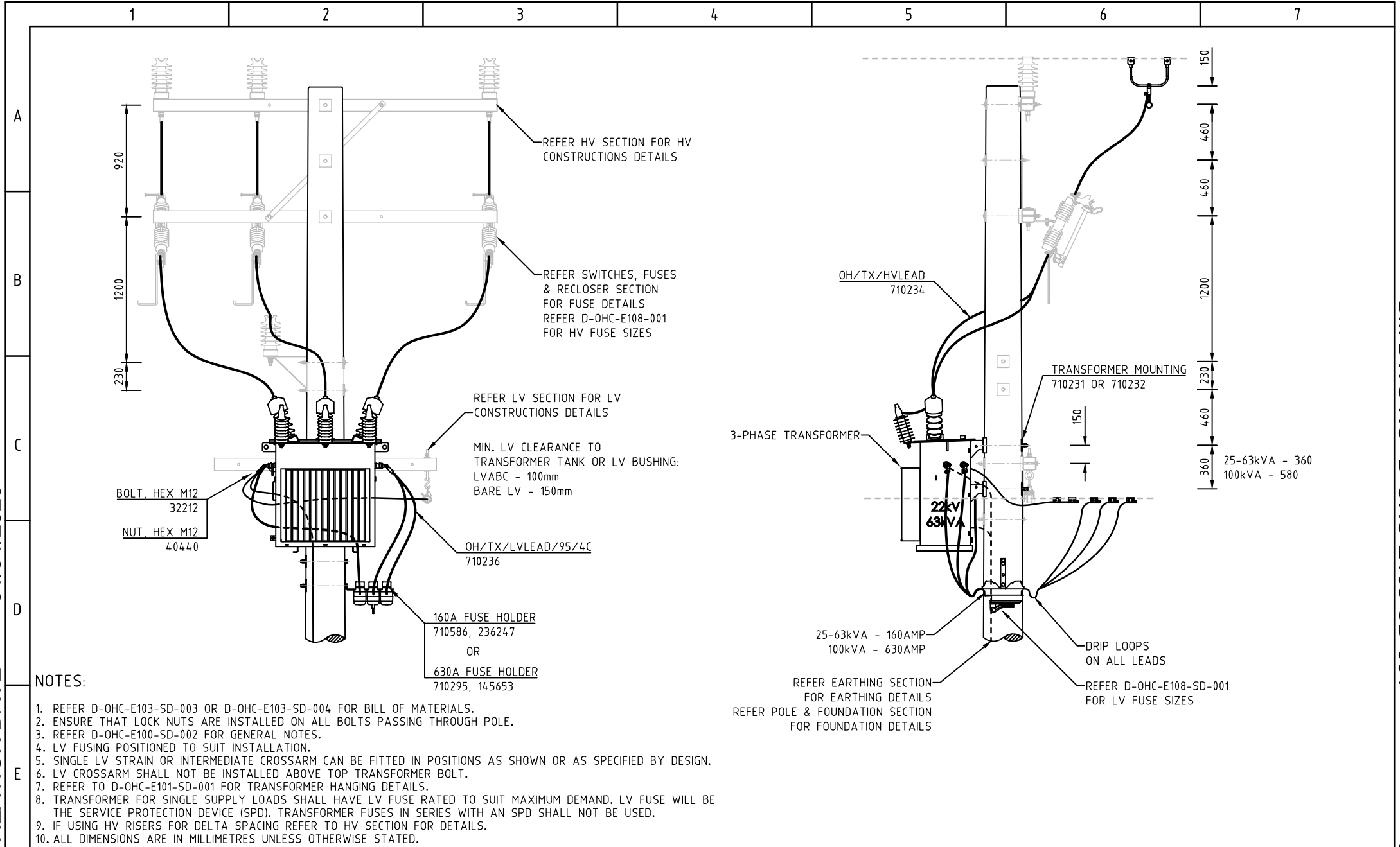
EMF/PDF CREATION DATE 01/04/2026

ALTERATIONS	ORIGINAL ISSUE	REFERENCE
		NEW DRAWING

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DRAWN	ANSS												
DRAFTING CHECK	ANSS												
DESIGNED BY	T.ANYZHA												
CHECKED BY	A.JUSSAN												
APPROVED BY	B.PAPALIA												
DATE APPROVED	02-04-2026												
TITLE	POLE SUBSTATION CONSTRUCTIONS SINGLE WOOD POLE SUBSTATION INTEGRATED HV FUSING 3-PHASE 25 - 100kVA 11kV OR 22kV												
SCALE	NTS												
REVISION	A4												
	D - OHC - E103 - SD - 001												

BM DWG NO D-OHC-E103-SD-001

BM REV B

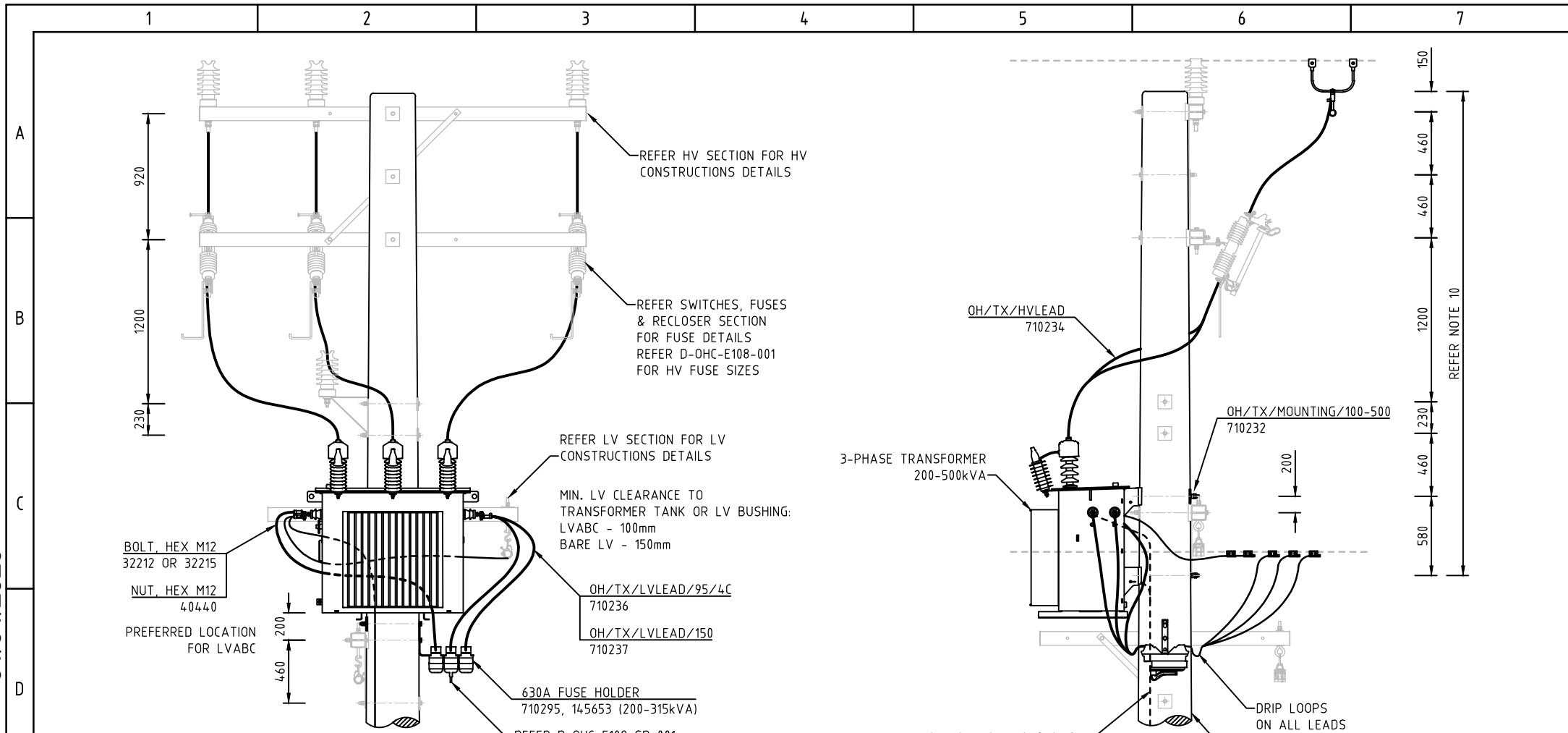


- NOTES:**
1. REFER D-OHC-E103-SD-003 OR D-OHC-E103-SD-004 FOR BILL OF MATERIALS.
 2. ENSURE THAT LOCK NUTS ARE INSTALLED ON ALL BOLTS PASSING THROUGH POLE.
 3. REFER D-OHC-E100-SD-002 FOR GENERAL NOTES.
 4. LV FUSING POSITIONED TO SUIT INSTALLATION.
 5. SINGLE LV STRAIN OR INTERMEDIATE CROSSARM CAN BE FITTED IN POSITIONS AS SHOWN OR AS SPECIFIED BY DESIGN.
 6. LV CROSSARM SHALL NOT BE INSTALLED ABOVE TOP TRANSFORMER BOLT.
 7. REFER TO D-OHC-E101-SD-001 FOR TRANSFORMER HANGING DETAILS.
 8. TRANSFORMER FOR SINGLE SUPPLY LOADS SHALL HAVE LV FUSE RATED TO SUIT MAXIMUM DEMAND. LV FUSE WILL BE THE SERVICE PROTECTION DEVICE (SPD). TRANSFORMER FUSES IN SERIES WITH AN SPD SHALL NOT BE USED.
 9. IF USING HV RISERS FOR DELTA SPACING REFER TO HV SECTION FOR DETAILS.
 10. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 01/04/2026

ALTERATIONS	ORIGINAL ISSUE	

REFERENCE			© 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
NEW DRAWING				
DRAWN	ANSS			
DRAFTING CHECK	ANSS			
DESIGNED BY	T.ANYZHA			
CHECKED BY	A.JUSSAN			
APPROVED BY	B.PAPALIA			
DATE APPROVED	02-04-2026			
			D - OHC - E103 - SD - 001	



- NOTES:**
1. REFER D-OHC-E103-SD-003 OR D-OHC-E103-SD-004 FOR BILL OF MATERIALS.
 2. ENSURE THAT LOCK NUTS ARE INSTALLED ON ALL BOLTS PASSING THROUGH POLE.
 3. REFER D-OHC-E100-SD-002 FOR GENERAL NOTES.
 4. LV FUSING POSITIONED TO SUIT INSTALLATION.
 5. SINGLE LV STRAIN OR INTERMEDIATE CROSSARM CAN BE FITTED IN POSITIONS AS SHOWN OR AS SPECIFIED BY DESIGN.
 6. LV CROSSARM SHALL NOT BE INSTALLED ABOVE TOP TRANSFORMER BOLT.
 7. REFER TO D-OHC-E101-SD-001 FOR TRANSFORMER HANGING DETAILS.
 8. TRANSFORMER FOR SINGLE SUPPLY LOADS SHALL HAVE LV FUSE RATED TO SUIT MAXIMUM DEMAND. LV FUSE WILL BE THE SERVICE PROTECTION DEVICE (SPD). TRANSFORMER FUSES IN SERIES WITH AN SPD SHALL NOT BE USED.
 9. IF USING HV RISERS FOR DELTA SPACING REFER TO HV SECTION FOR DETAILS.
 10. DIMENSIONS BASED ON STANDARD TITAN POLE (12.5m EQUIPMENT POLE) HOLE SPACINGS.
 11. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 01/04/2026

ALTERATIONS	ORIGINAL ISSUE	

REFERENCE			© Tasmanian Networks PTY. LTD. trading as TasNetworks ABLN 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
NEW DRAWING				
DRAWN	ANSS			
DRAFTING CHECK	ANSS			
DESIGNED BY	TJONYZKA			
CHECKED BY	AJUSSAN			
APPROVED BY	BJAPALLA			
DATE APPROVED	02-04-2026			
		D - OHC - E103 - SD - 002		

DWG STATUS STANDARD

BM DWG NO D-OHC-E103-SD-002

BM REV C

1 2 3 4 5 6 7

A

MATERIALS	DESCRIPTION	TYPE	SINGLE CIRCUIT TRANSFORMERS					
			710242	710243	710244	710245	710246	710247
			11/TX/3/25/1CCT	11/TX/3/63/1CCT	11/TX/3/100/1CCT	11/TX/3/200/1CCT	11/TX/3/315/1CCT	11/TX/3/500/1CCT
710232	OH, TRANSFORMER MOUNTING, 100-500kVA (OH/TX/MOUNTING/100-500)	EA			1	1	1	1
710231	OH, TRANSFORMER MOUNTING, 25-63kVA (OH/TX/MOUNTING/25-63)	EA	1	1				
710234	OH, TRANSFORMER HV LEAD (OH/TX/HVLEAD)	EA	3	3	3	3	3	3
710236	OH, TRANSFORMER LV LEAD, 95mm, 4 CORE (OH/TX/LVLEAD/95/4C)	EA	1	1	1	2	2	
710237	OH, TRANSFORMER LV LEAD, WIRE, BLDNG 150mm ² x 37/2.25 XLPE BLACK	EA						2
236247	SWITCH, ISOLATING POLE FUSE 6-95mm ² SZ-00	EA	2	2				
710295	OH, 630A FUSES, WOOD POLE MOUNTED (OH/SERV/FUSE/POLE/630)	EA			1	1	1	1
145653	TERMINAL, LUG COMPRESSION M13 x 95mm ²	EA			3	6	6	
32212	BOLT, HEX HEAD M12 x 50mm GAL. C/W NUT	EA	4	4	4	4	4	
32215	BOLT, HEX HEAD M12 x 65mm GAL. C/W NUT	EA						4
40440	NUT, HEX M12 THREAD GALVANISED STEEL	EA	1	1	1	1	1	1
421414	T/FORMER, 11kV/500-250V 25kVA x 3P MEPS	EA	1					
421609	T/FORMER, 11kV/500-250V 63kVA x 3P MEPS	EA		1				
421710	T/FORMER, 11kV/433-250V 100kVA x 3P MEPS	EA			1			
421810	T/FORMER, 11kV/433-250V 200kVA x 3P MEPS	EA				1		
421906	T/FORMER, 11kV/433-250V 315kVA x 3P MEPS	EA					1	
425003	T/FORMER, 11kV/433-250V 500kVA x 3P MEPS	EA						1
710586	OH, 160A FUSE, WOOD POLE MOUNTED (OH/SERV/FUSE/POLE/160)	EA	1	1				

B

C

MATERIALS	DESCRIPTION	TYPE	TWO CIRCUIT TRANSFORMERS		
			710770	710771	710772
			11/TX/3/200/2CCT	11/TX/3/315/2CCT	11/TX/3/500/2CCT
710232	OH, TRANSFORMER MOUNTING, 100-500kVA (OH/TX/MOUNTING/100-500)	EA	1	1	1
710234	OH, TRANSFORMER HV LEAD (OH/TX/HVLEAD)	EA	3	3	3
710236	OH, TRANSFORMER LV LEAD, 95mm, 4 CORE (OH/TX/LVLEAD/95/4C)	EA	2	2	
710237	OH, TRANSFORMER LV LEAD, WIRE, BLDNG 150mm ² x 37/2.25 XLPE BLACK	EA			2
710295	OH, 630A FUSES, WOOD POLE MOUNTED (OH/SERV/FUSE/POLE/630)	EA	2	2	2
145653	TERMINAL, LUG COMPRESSION M13 x 95mm ²	EA	6	6	
32212	BOLT, HEX HEAD M12 x 50mm GAL. C/W NUT	EA	4	4	
32215	BOLT, HEX HEAD M12 x 65mm GAL. C/W NUT	EA			4
40440	NUT, HEX M12 THREAD GALVANISED STEEL	EA	1	1	1
421810	T/FORMER, 11kV/433-250V 200kVA x 3P MEPS	EA	1		
421906	T/FORMER, 11kV/433-250V 315kVA x 3P MEPS	EA		1	
425003	T/FORMER, 11kV/433-250V 500kVA x 3P MEPS	EA			1


D

E

- NOTES:
- ADD HV FUSE ASSEMBLY (710271 TO 710276) FOR INTEGRATED HV FUSING TRANSFORMER INSTALLATIONS.
 - ADD TRANSPOSITION BRACKET SUB-ASSEMBLY (710777) FOR REMOTE FUSING INSTALLATIONS.

EMF/PDF CREATION DATE 01/04/2026

ALTERATIONS ORIGINAL ISSUE

REFERENCE NEW DRAWING: SUPERSEDES D-OHC-F002-SD-002 TO D-OHC-F012-SD-002		 TasNetworks	© Tasmanian Networks PTY. LTD. trading as TasNetworks ABN 24 167 957 299		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	
DRAWMAN ANSS DRAFTING CHECK ANSS DESIGNED BY T.ANYZWA CHECKED BY A.AUSSAM APPROVED BY B.PAPALIA DATE APPROVED 02-04-2026			TITLE POLE SUBSTATION CONSTRUCTIONS SINGLE POLE SUBSTATION BILL OF MATERIALS 3-PHASE 11kV		SCALE NTS A4 REVISION A	

D - OHC - E103 - SD - 003

BM DWG NO D-OHC-E103-SD-003

BM REV A

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MATERIALS	DESCRIPTION	TYPE	SINGLE CIRCUIT TRANSFORMERS					
			710248	710249	710250	710251	710252	710253
			22/TX/3/25/1CCT	22/TX/3/63/1CCT	22/TX/3/100/1CCT	22/TX/3/200/1CCT	22/TX/3/315/1CCT	22/TX/3/500/1CCT
710232	OH, TRANSFORMER MOUNTING, 100-500kVA (OH/TX/MOUNTING/100-500)	EA			1	1	1	1
710231	OH, TRANSFORMER MOUNTING, 25-63kVA (OH/TX/MOUNTING/25-63)	EA	1	1				
710234	OH, TRANSFORMER HV LEAD (OH/TX/HVLEAD)	EA	3	3	3	3	3	3
710236	OH, TRANSFORMER LV LEAD, 95mm, 4 CORE (OH/TX/LVLEAD/95/4C)	EA	1	1	1	2	2	
710237	OH, TRANSFORMER LV LEAD, WIRE, BLDNG 150mm ² x 37/2.25 XLPE BLACK	EA						2
236247	SWITCH, ISOLATING POLE FUSE 6-95mm ² SZ-00	EA	2	2				
710295	OH, 630A FUSES, WOOD POLE MOUNTED (OH/SERV/FUSE/POLE/630)	EA			1	1	1	1
145653	TERMINAL, LUG COMPRESSION M13 x 95mm ²	EA			3	6	6	
32212	BOLT, HEX HEAD M12 x 50mm GAL. C/W NUT	EA	4	4	4	4	4	
32215	BOLT, HEX HEAD M12 x 65mm GAL. C/W NUT	EA						4
40440	NUT, HEX M12 THREAD GALVANISED STEEL	EA	1	1	1	1	1	1
424013	T/FORMER, 22kV/500-250V 25kVA x 3P MEPS	EA	1					
424202	T/FORMER, 22kV/500-250V 63kVA x 3P MEPS	EA		1				
424317	T/FORMER, 22kV/433-250V 100kVA x 3P MEPS	EA			1			
424411	T/FORMER, 22kV/433-250V 200kVA x 3P MEPS	EA				1		
424509	T/FORMER, 22kV/433-250V 315kVA x 3P MEPS	EA					1	
426205	T/FORMER, 22kV/433-250V 500kVA x 3P MEPS	EA						1
710586	OH, 160A FUSE, WOOD POLE MOUNTED (OH/SERV/FUSE/POLE/160)	EA	1	1				

C

MATERIALS	DESCRIPTION	TYPE	TWO CIRCUIT TRANSFORMERS		
			710773	710774	710775
			22/TX/3/200/2CCT	22/TX/3/315/2CCT	22/TX/3/500/2CCT
710232	OH, TRANSFORMER MOUNTING, 100-500kVA (OH/TX/MOUNTING/100-500)	EA	1	1	1
710234	OH, TRANSFORMER HV LEAD (OH/TX/HVLEAD)	EA	3	3	3
710236	OH, TRANSFORMER LV LEAD, 95mm, 4 CORE (OH/TX/LVLEAD/95/4C)	EA	2	2	
710237	OH, TRANSFORMER LV LEAD, WIRE, BLDNG 150mm ² x 37/2.25 XLPE BLACK	EA			2
710295	OH, 630A FUSES, WOOD POLE MOUNTED (OH/SERV/FUSE/POLE/630)	EA	2	2	2
145653	TERMINAL, LUG COMPRESSION M13 x 95mm ²	EA	6	6	
32212	BOLT, HEX HEAD M12 x 50mm GAL. C/W NUT	EA	4	4	
32215	BOLT, HEX HEAD M12 x 65mm GAL. C/W NUT	EA			4
40440	NUT, HEX M12 THREAD GALVANISED STEEL	EA	1	1	1
424411	T/FORMER, 22kV/433-250V 200kVA x 3P MEPS	EA	1		
424509	T/FORMER, 22kV/433-250V 315kVA x 3P MEPS	EA		1	
426205	T/FORMER, 22kV/433-250V 500kVA x 3P MEPS	EA			1

E

- NOTES:
- ADD HV FUSE ASSEMBLY (710271 TO 710276) FOR INTEGRATED HV FUSING TRANSFORMER INSTALLATIONS.
 - ADD TRANSPOSITION BRACKET SUB-ASSEMBLY (710777) FOR REMOTE FUSING INSTALLATIONS.

EMF/PDF CREATION DATE 01/04/2026

ALTERATIONS

ORIGINAL ISSUE	REFERENCE
	NEW DRAWING: SUPERSEDES D-OHC-F002-SD-002 TO D-OHC-F012-SD-002

DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	T.ANYZHA
CHECKED BY	A.JUSSAM
APPROVED BY	B.PAPALIA
DATE APPROVED	02-04-2026

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TITLE POLE SUBSTATION CONSTRUCTIONS SINGLE POLE SUBSTATION BILL OF MATERIALS 3-PHASE 22kV		SCALE NTS A4 REVISION B
D - OHC - E103 - SD - 004		

BM DWG NO D-OHC-E103-SD-004

BM REV B

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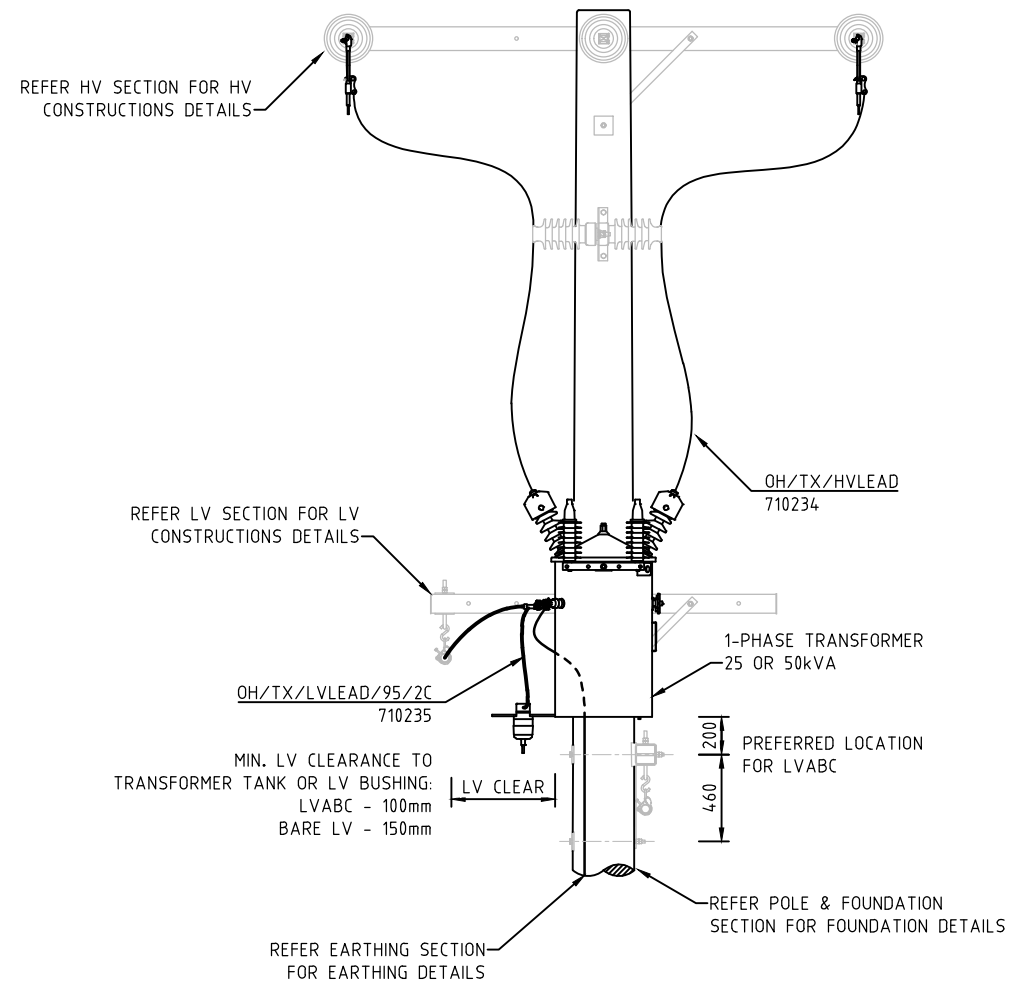
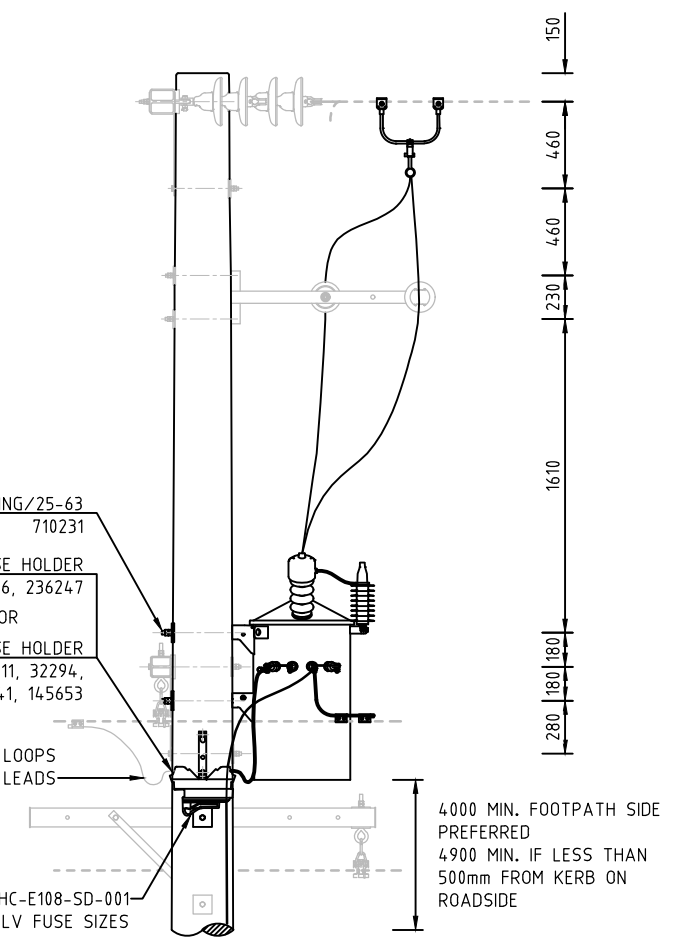
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NOTES:

1. ENSURE THAT LOCK NUTS ARE INSTALLED ON ALL BOLTS PASSING THROUGH POLE.
2. REFER D-OHC-E100-SD-002 FOR GENERAL NOTES.
3. REFER D-OHC-E102-SD-002 FOR BILL OF MATERIALS.
4. LV FUSING POSITIONED TO SUIT INSTALLATION.
5. REFER TO D-OHC-E101-SD-001 FOR TRANSFORMER HANGING DETAILS.
6. TRANSFORMER FOR SINGLE SUPPLY LOADS SHALL HAVE LV FUSE RATED TO SUIT MAXIMUM DEMAND. LV FUSE WILL BE SERVICE FUSE (SPD).
7. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 01/04/2026

ALTERATIONS	ORIGINAL ISSUE

REFERENCE	NEW DRAWING
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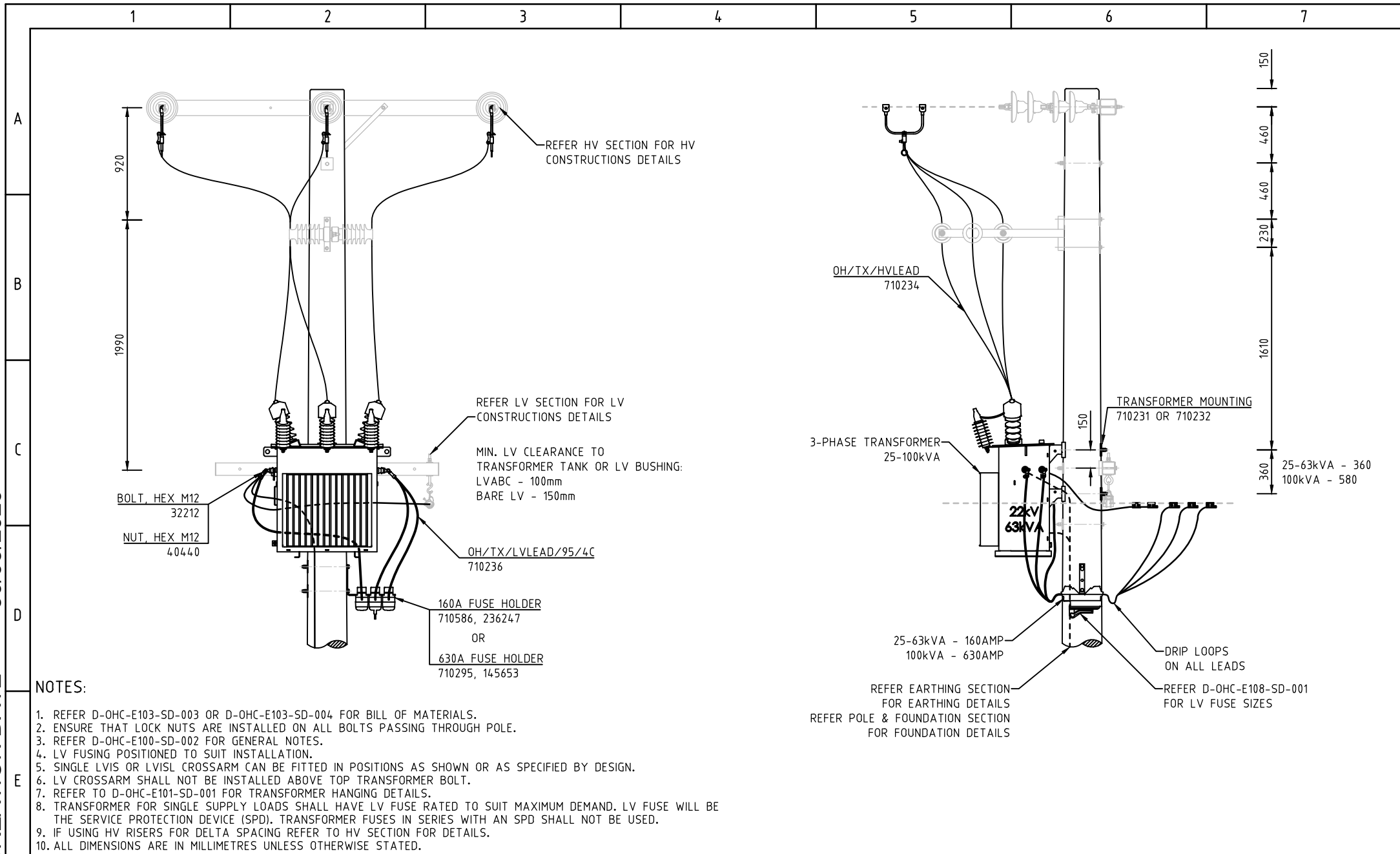
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DRAFTING CHECK	ANSS
DESIGNED BY	TJONYZHA
CHECKED BY	AJUSSAM
APPROVED BY	BAPALIA
DATE APPROVED	02-01-2026

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TITLE	POLE SUBSTATION CONSTRUCTIONS SINGLE WOOD POLE SUBSTATION REMOTE HV FUSING 1-PHASE 11kV OR 22kV	
SCALE	NTS	
	A4	
REVISION	A	
	D - OHC - E104 - SD - 001	

DWG STATUS STANDARD

BM DWG NO D-OHC-E104-SD-001

BM REV A



EMF/PDF CREATION DATE 30/03/2026

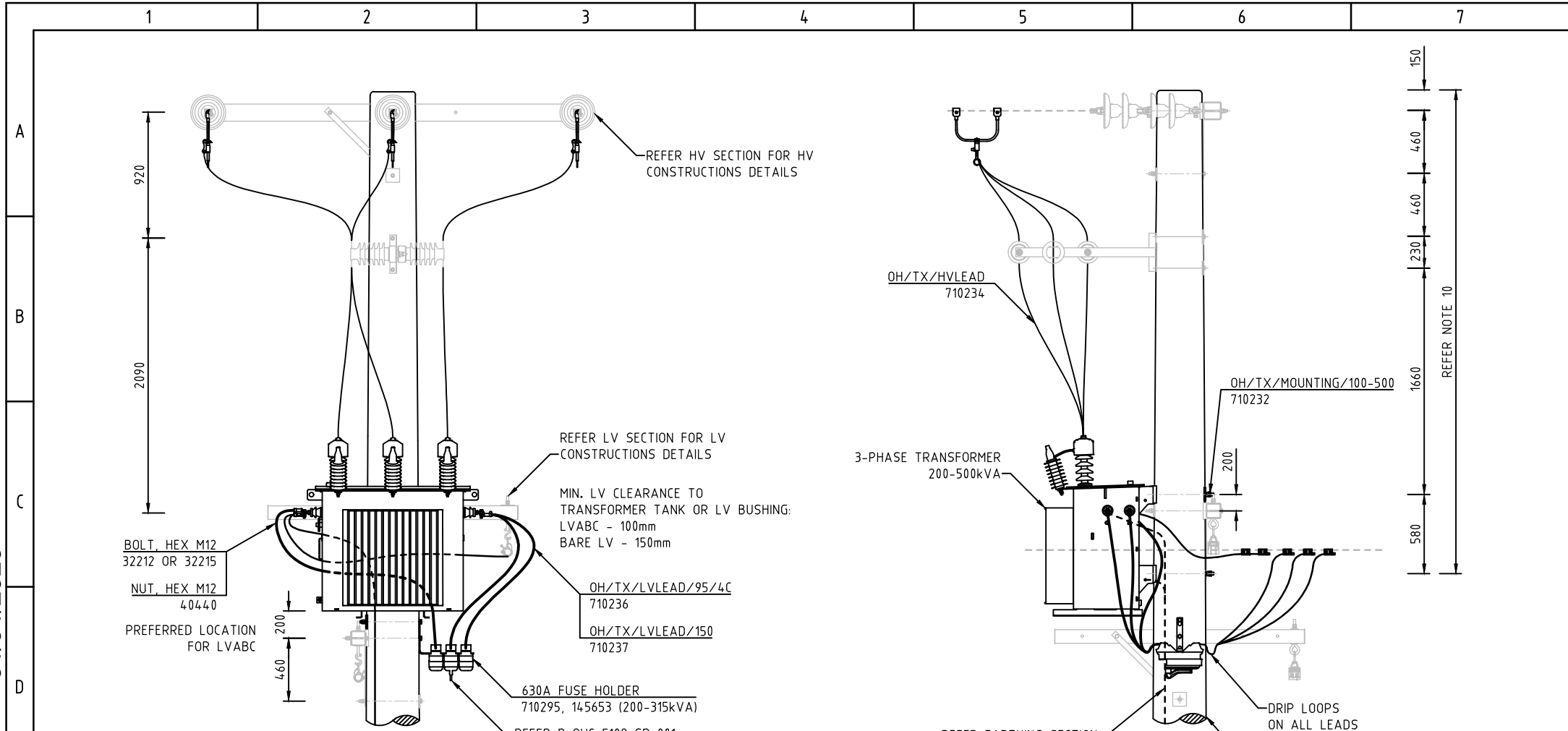
ALTERATIONS	ORIGINAL ISSUE	REFERENCE
		NEW DRAWING

DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	T.ARIYDHA
CHECKED BY	A.JUSSAM
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2026

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TITLE POLE SUBSTATION CONSTRUCTIONS SINGLE WOOD POLE SUBSTATION REMOTE HV FUSING 3-PHASE 25 - 100kVA 11kV OR 22kV		SCALE NTS A4 REVISION A
D - OHC - E104 - SD - 002		

BM DWG NO D-OHC-E104-SD-002

BM REV A



- NOTES:
1. REFER D-OHC-E103-SD-003 OR D-OHC-E103-SD-004 FOR BILL OF MATERIALS.
 2. ENSURE THAT LOCK NUTS ARE INSTALLED ON ALL BOLTS PASSING THROUGH POLE.
 3. REFER D-OHC-E100-SD-002 FOR GENERAL NOTES.
 4. LV FUSING POSITIONED TO SUIT INSTALLATION.
 5. SINGLE LVIS OR LVISL CROSSARM CAN BE FITTED IN POSITIONS AS SHOWN OR AS SPECIFIED BY DESIGN.
 6. LV CROSSARM SHALL NOT BE INSTALLED ABOVE TOP TRANSFORMER BOLT.
 7. REFER TO D-OHC-E101-SD-001 FOR TRANSFORMER HANGING DETAILS.
 8. TRANSFORMER FOR SINGLE SUPPLY LOADS SHALL HAVE LV FUSE RATED TO SUIT MAXIMUM DEMAND. LV FUSE WILL BE THE SERVICE PROTECTION DEVICE (SPD). TRANSFORMER FUSES IN SERIES WITH AN SPD SHALL NOT BE USED.
 9. IF USING HV RISERS FOR DELTA SPACING REFER TO HV SECTION FOR DETAILS.
 10. DIMENSIONS BASED ON STANDARD TITAN POLE (12.5m EQUIPMENT POLE) HOLE SPACINGS.
 11. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 01/04/2026

ALTERATIONS	ORIGINAL ISSUE	

REFERENCE	
NEW DRAWING	

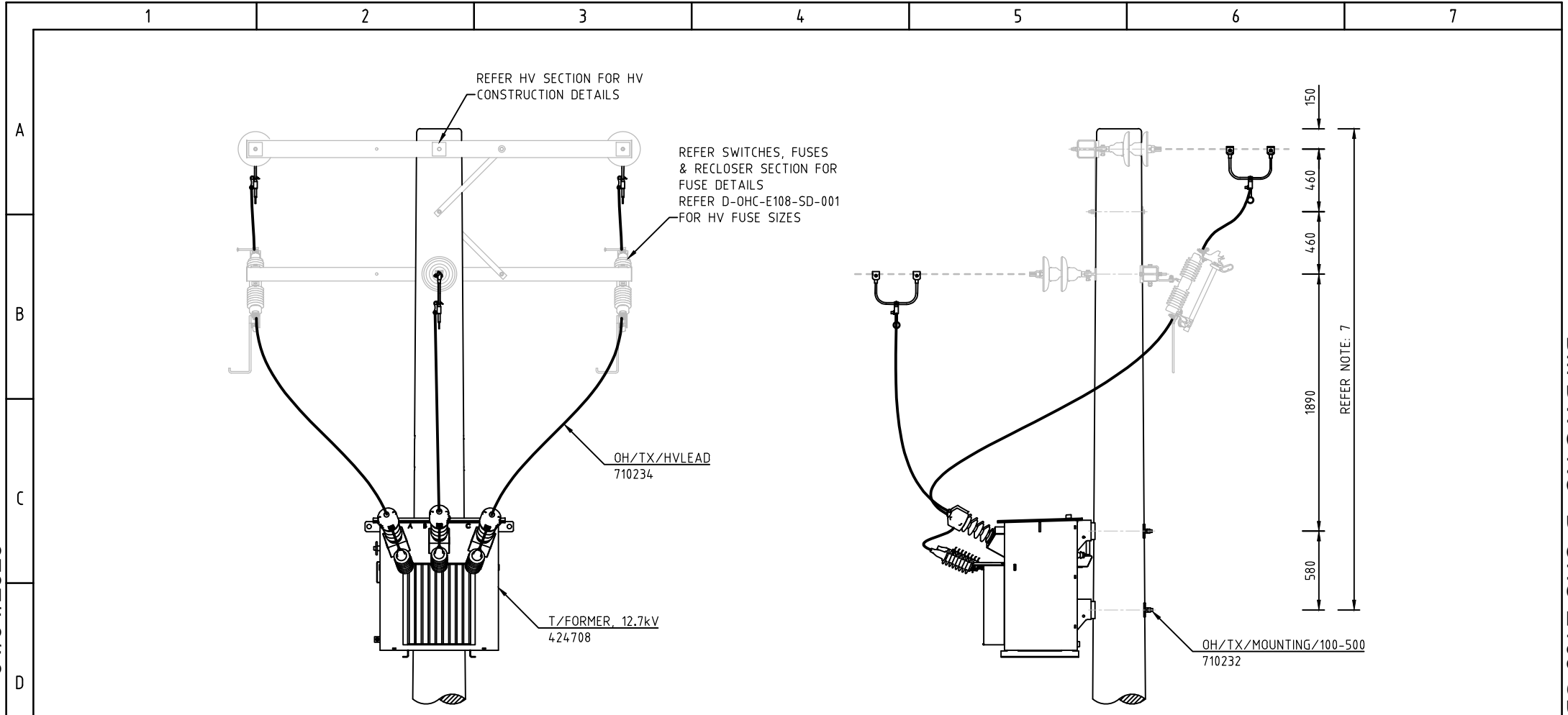
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DRAFTING CHECK	ANSS
DESIGNED BY	T.ANYZHA
CHECKED BY	A.AUSSAM
APPROVED BY	B.PAPALIA
DATE APPROVED	02-04-2026

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TITLE	POLE SUBSTATION CONSTRUCTIONS SINGLE TITAN POLE SUBSTATION REMOTE HV FUSING 3-PHASE 200 - 500kVA 11kV OR 22kV	
SCALE	NTS	
	A4	
REVISION	A	
	D - OHC - E104 - SD - 003	

DWG STATUS STANDARD

BM DWG NO D-OHC-E104-SD-003

BM REV A



NOTES:

1. ENSURE THAT LOCK NUTS ARE INSTALLED ON ALL BOLTS PASSING THROUGH POLE.
2. REFER D-OHC-E100-SD-002 FOR GENERAL NOTES.
3. REFER SWITCHES, FUSES, RECLOSER SECTION FOR FUSE CONSTRUCTION DETAILS.
4. NO NEW LV SUPPLIES CONNECTED EXCEPT FOR SUPPLYING AN ADJACENT SWER RECLOSER. EXISTING CONNECTIONS ACCEPTABLE, HOWEVER WHEN MAJOR ALTERATIONS TO THE INSTALLATION OCCUR THEN CONSIDER REMOVING LV AND CHANGE SUPPLY ARRANGEMENTS TO A DISTRIBUTION TRANSFORMER. (THE LV CAPACITY IS ONLY 10KVA.)
5. CONSUMER UNDERGROUND MAINS ARE NOT PERMITTED ON POLE.
6. REFER TO D-OHC-E101-SD-001 FOR TRANSFORMER HANGING DETAILS.
7. DIMENSIONS BASED ON STANDARD TITAN POLE (12.5m EQUIPMENT POLE) HOLE SPACINGS.
8. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

MATERIALS	DESCRIPTION	710256	
		TYPE	12.7/TX/1/100/ISO
710232	OH/TX/MOUNTING/100-500kVA (OH/TX/MOUNTING/100-500)	EA	1
710234	OH, TRANSFORMER HV LEAD (OH/TX/HVLEAD)	EA	3
424708	T/FORMER, 12.7kV/500-250V 100kVA x1P MEPS	EA	1

EMF/PDF CREATION DATE 01/04/2026

ALTERNATIONS ORIGINAL ISSUE

REFERENCE	
NEW DRAWING	

DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	T.AMYZHA
CHECKED BY	A.JUSSAN
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2024

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TITLE POLE SUBSTATION CONSTRUCTIONS SINGLE POLE SUBSTATION SWER ISOLATING TRANSFORMER 12.7kV			SCALE NTS
D - OHC - E105 - SD - 001			REVISION C

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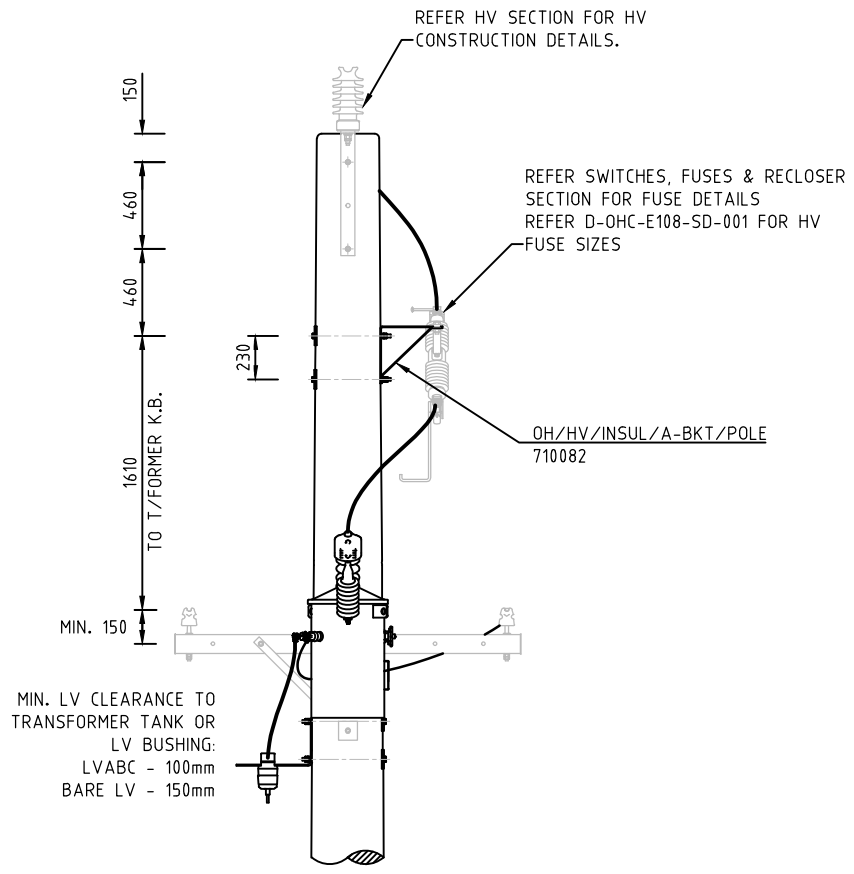
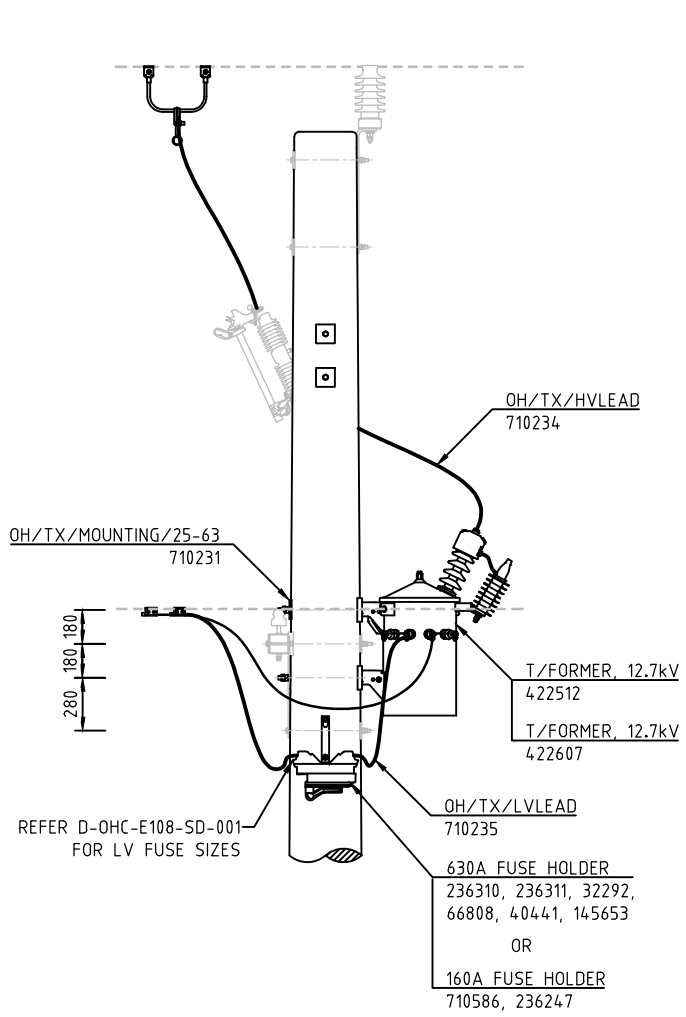
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NOTES:

1. ENSURE THAT LOCK NUTS ARE INSTALLED ON ALL BOLTS PASSING THROUGH POLE.
2. REFER D-OHC-E100-SD-002 FOR GENERAL NOTES.
3. REFER D-OHC-E105-SD-003 FOR BILL OF MATERIALS.
4. LV FUSING POSITIONED TO SUIT INSTALLATION.
5. CONSUMER UNDERGROUND MAINS ARE NOT PERMITTED ON POLE.
6. REFER TO D-OHC-E101-SD-001 FOR TRANSFORMER HANGING DETAILS.
7. TRANSFORMER FOR SINGLE SUPPLY LOADS SHALL HAVE LV FUSE RATED TO SUIT MAXIMUM DEMAND. LV FUSE WILL BE SERVICE FUSE (SPD)
8. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 01/04/2026

ALTERATIONS ORIGINAL ISSUE

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NEW DRAWING				
DRAWN	ANSS			
DRAFTING CHECK	ANSS			
DESIGNED BY	T.ANIZHKA			
CHECKED BY	A.MUSSAN			
APPROVED BY	B.PAPALIA			
DATE APPROVED	02-04-2024			
D - OHC - E105 - SD - 002				REVISION C

DWG STATUS STANDARD

BM DWG NO D-OHC-E105-SD-002

BM REV C

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NOTES:

1. ADD A HV FUSE SUB-ASSEMBLY (710257 OR 710258 OR 710259) FOR INTEGRATED HV FUSING TRANSFORMER INSTALLATIONS.
2. ADD A HV POST INSULATOR SUB-ASSEMBLY (710590) FOR REMOTE HV FUSING TRANSFORMER INSTALLATIONS.


MATERIALS	DESCRIPTION	TYPE	SINGLE CIRCUIT TRANSFORMERS		TWO CIRCUIT TRANSFORMERS	
			710254	710255	710778	710779
			12.7/TX/1/25/1CCT	12.7/TX/1/50/1CCT	12.7/TX/1/25/2CCT	12.7/TX/1/50/2CCT
710231	OH, TRANSFORMER MOUNTING, 25-63kVA (OH/TX/MOUNTING/25-63)	EA	1	1	1	1
710234	OH, TRANSFORMER HV LEAD (OH/TX/HVLEAD)	EA	1	1	1	1
710235	OH, TRANSFORMER LV LEAD, 95mm, 2 CORE (OH/TX/LVLEAD/95/2C)	EA	1	2	1	2
236247	SWITCH, ISOLATING POLE FUSE 6-95mm ² SZ-00	EA			1	1
236310	FUSE HOLDER, LV, NGK, 630A 1-Ph	EA		1		
236311	BRACKET, 630A NGK FUSE HOLDER	EA		1		
32292	BOLT, HEX HEAD M16 x 450mm GAL. C/W NUT	EA		2		
422512	T/FORMER, 12.7kV/500-250V 25kVA x 1P MEPS	EA	1		1	
422607	T/FORMER, 12.7kV/500-250V 50kVA x 1P MEPS	EA		1		1
710082	OH, 11kV-22kV, INSULATOR, A-BRACKET (OH/HV/INSUL/A-BKT/POLE)	EA	1	1	1	1
145653	LUG, COMPRESSION INSULATED M13 95mm ²	EA		2		
66808	WASHER, CURVED SQUARE M16 100mm	EA		2		
40441	NUT, HEX M16 THREAD GALVANISED STEEL	EA		2		
710586	OH, 160A FUSE, WOOD POLE MOUNTED (OH/SERV/FUSE/POLE/160)	EA	1		1	1

EMF/PDF CREATION DATE 30/03/2026

ALTERATIONS

ORIGINAL ISSUE

REFERENCE	
NEW DRAWING	

 TasNetworks	
DRAWN	MEGAYAR PTY LTD
DRAFTING CHECK	MEGAYAR PTY LTD
DESIGNED BY	T.AMYZHA
CHECKED BY	A.JUSSAN
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2026

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TITLE POLE SUBSTATION CONSTRUCTIONS SINGLE POLE SUBSTATION SWER DISTRIBUTION TRANSFORMER BILL OF MATERIALS 12.7kV		SCALE NTS	REVISION A
D - OHC - E105 - SD - 003		A4	

DWG STATUS STANDARD

BM DWG NO D-OHC-E105-SD-003

BM REV A

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OH/TX/HVLEAD
710234

OH/11/CABLETERM
710571

OH/22/CABLETERM
710572

REFER SWITCHES, FUSES & RECLOSER
SECTION FOR FUSE DETAILS
REFER D-OHC-E108-SD-001
FOR HV FUSE SIZES

REFER D-OHC-E107-SD-003
FOR LV BRIDGING DETAILS

MIN. LV CLEARANCE TO
TRANSFORMER TANK
OR LV BUSHING:
LVABC - 100mm
BARE LV - 150mm

DRIP LOOPS
ON ALL LEADS

3-PHASE TRANSFORMER
(22kV 500kVA SHOWN)

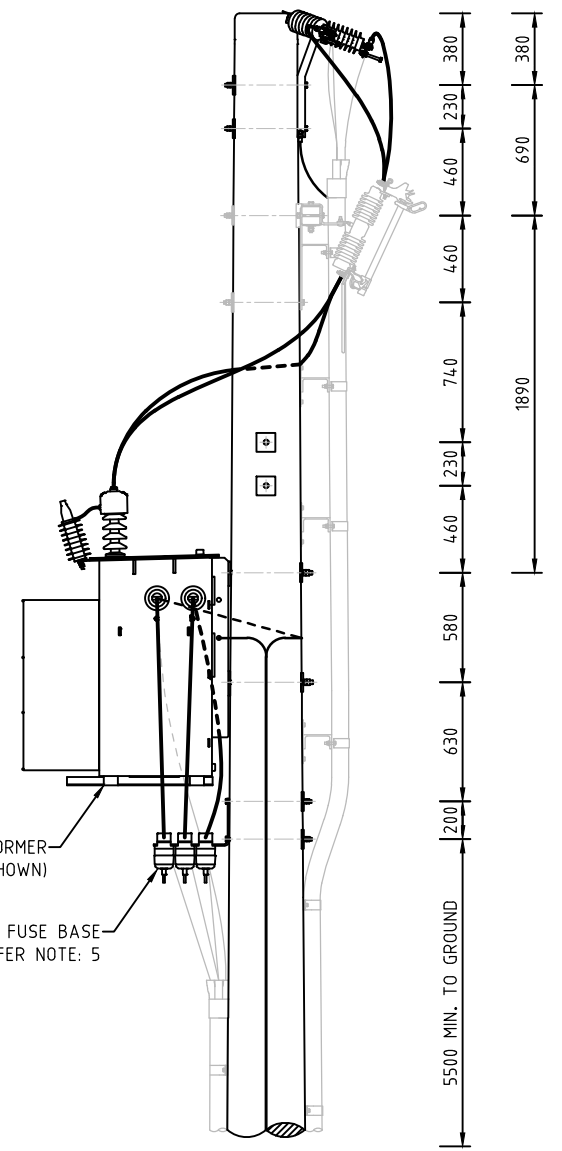
630A 3-PHASE FUSE BASE
REFER NOTE: 5

NOTES:

1. ENSURE THAT LOCK NUTS ARE INSTALLED ON ALL BOLTS PASSING THROUGH POLE.
2. REFER D-OHC-E100-SD-002 FOR GENERAL NOTES.
3. REFER UNDERGROUND SECTION FOR UNDERGROUND CONSTRUCTION DETAILS.
4. LV FUSING POSITIONED TO SUIT INSTALLATION.
5. REFER LV SECTION FOR LV CONSTRUCTION DETAILS.
6. REFER TO D-OHC-E101-SD-001 FOR TRANSFORMER HANGING DETAILS.
7. REFER POLE & FOUNDATION SECTION FOR POLE SIZE AND FOUNDATION DETAILS.
8. REFER EARTHING SECTION FOR EARTHING DETAILS.
9. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

USE RELEVANT TRANSFORMER ASSEMBLIES AND ADD CABLE TERMINATION ASSEMBLY.
DOES NOT INCLUDE U/G CABLES OR COMPONENTS.

MATERIALS	DESCRIPTION	11kV	22kV
710571	OH, 11kV CABLE TERMINATION (OH/11/CABLETERM)	1	
710572	OH, 22kV CABLE TERMINATION (OH/22/CABLETERM)		1



ALTERATIONS

ORIGINAL ISSUE

REFERENCE	
NEW DRAWING	

DRAWN	MEGAYAR PTY LTD
DRAFTING CHECK	MEGAYAR PTY LTD
DESIGNED BY	T.AMYZHA
CHECKED BY	A.JUSSAN
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2026

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TITLE POLE SUBSTATION CONSTRUCTIONS SINGLE POLE SUBSTATION U/G HV SUPPLIED 11kV OR 22kV		SCALE NTS	REVISION B
D - OHC - E106 - SD - 001		A4	

EMF/PDF CREATION DATE 16/03/2026

BM DWG NO D-OHC-E106-SD-001

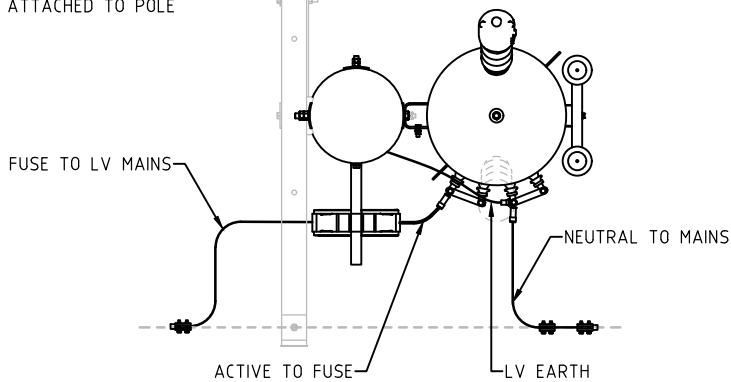
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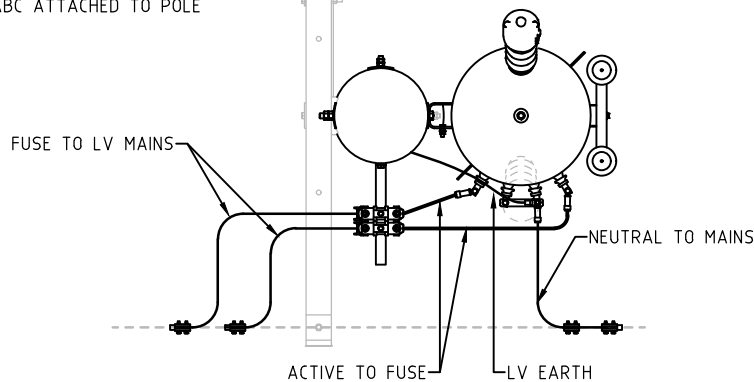
EXAMPLE:
1-PHASE 25-50kVA
LVABC INTERMEDIATE
ON LVIS (SI 323215) CROSSARM
USE SAME ARRANGEMENT WHEN
ABC ATTACHED TO POLE

TRANSFORMER INSULATOR
HIDDEN FOR CLARITY



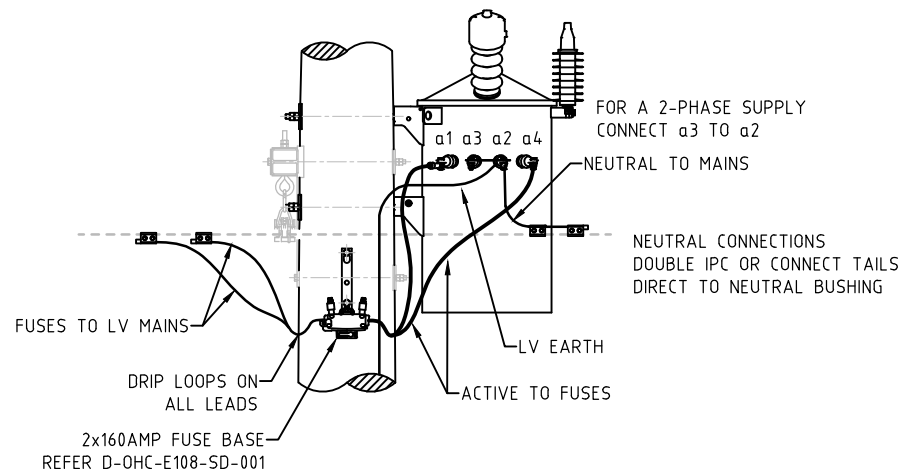
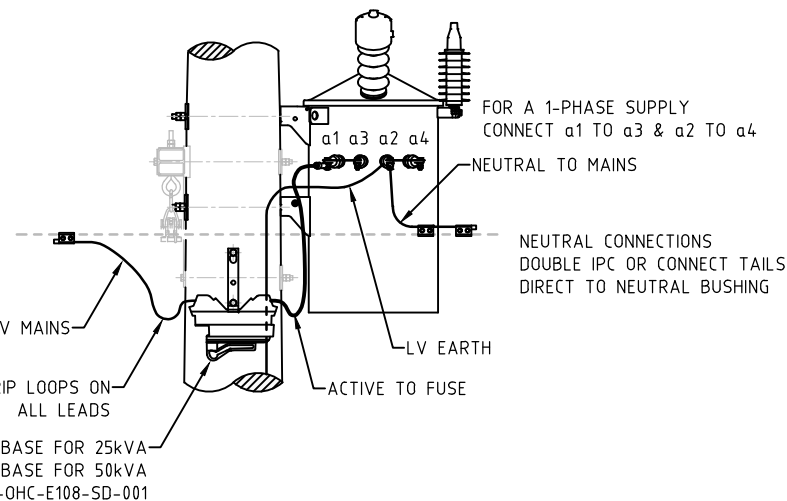
EXAMPLE:
2-PHASE 25-50kVA
LVABC INTERMEDIATE
ON LVIS (SI 323215) CROSSARM
USE SAME ARRANGEMENT WHEN
ABC ATTACHED TO POLE

TRANSFORMER INSULATOR
HIDDEN FOR CLARITY



B

C



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E

NOTES:

1. REFER PART 2 FOR OLD INSTALLATIONS USING BARE TYPE FUSE LINKS AND COPPER LEADS.
2. LV FUSING POSITIONED TO SUIT INSTALLATION.
3. TRANSFORMER FOR SINGLE SUPPLY LOADS SHALL HAVE LV FUSE RATED TO SUIT MAXIMUM DEMAND. LV FUSE WILL BE SERVICE FUSE (SPD).
4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 01/04/2026

ALTERATIONS	ORIGINAL ISSUE	REFERENCE
		NEW DRAWING

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	TITLE POLE SUBSTATION CONSTRUCTIONS SINGLE POLE SUBSTATION LV BRIDGING ARRANGEMENTS 1-PHASE & 2-PHASE LV ABC	SCALE NTS A4 REVISION C
DRAWN ANSS DRAFTING CHECK ANSS DESIGNED BY T.ANYZHA CHECKED BY A.AUSSAM APPROVED BY B.PAPALIA DATE APPROVED 02-04-2026	D - OHC - E107 - SD - 001	

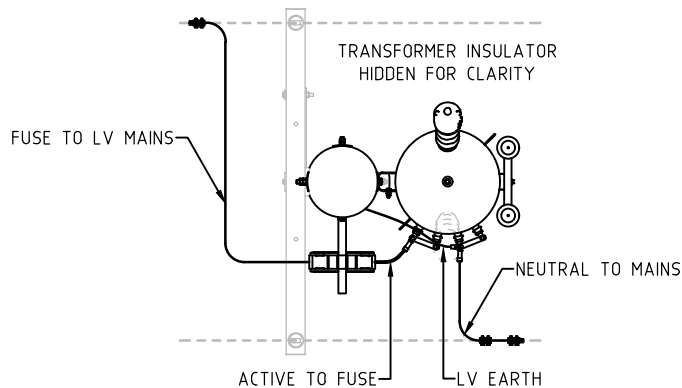
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BM REV C

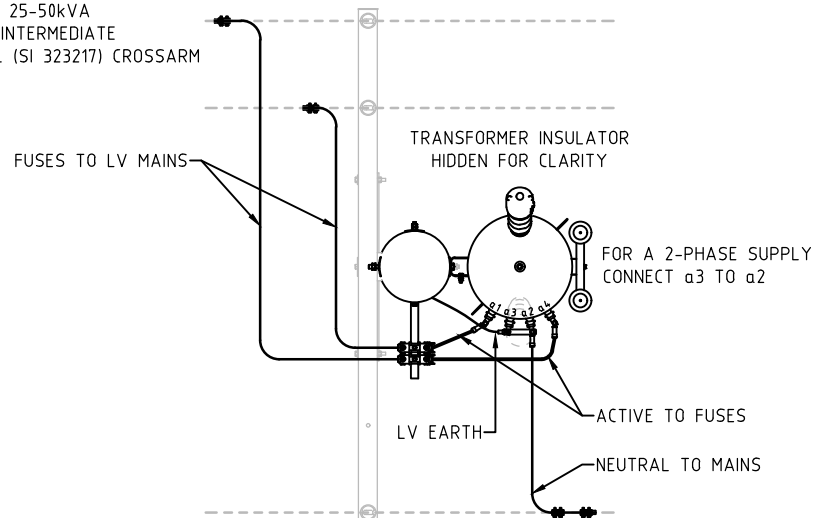
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EXAMPLE:
1-PHASE 25-50kVA
LVBARE INTERMEDIATE
ON LVIS (SI 323215) CROSSARM

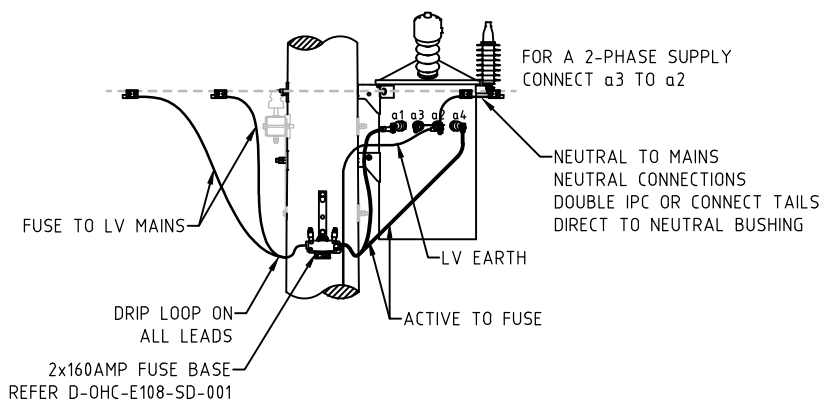
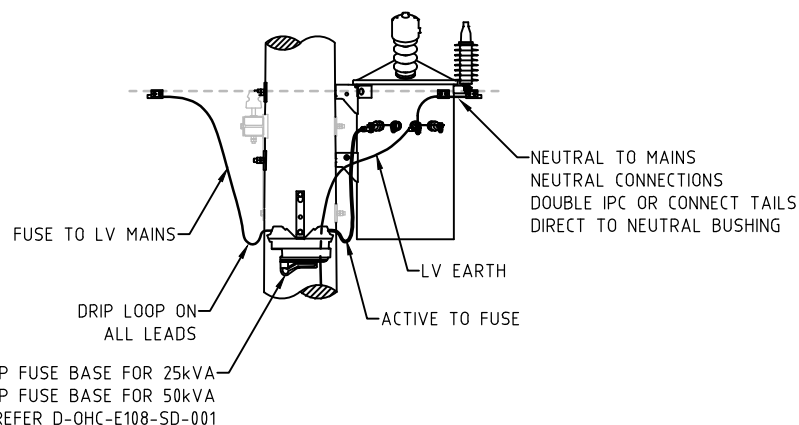


EXAMPLE:
2-PHASE 25-50kVA
LVBARE INTERMEDIATE
ON LVISL (SI 323217) CROSSARM



B

C



D

E

NOTES:

1. REFER PART 2 FOR OLD INSTALLATIONS USING BARE TYPE FUSE LINKS AND COPPER LEADS.
2. LV FUSING POSITIONED TO SUIT INSTALLATION.
3. TRANSFORMER FOR SINGLE SUPPLY LOADS SHALL HAVE LV FUSE RATED TO SUIT MAXIMUM DEMAND. LV FUSE WILL BE SERVICE FUSE (SPD).
4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 01/04/2026

ALTERNATIONS ORIGINAL ISSUE

REFERENCE	
NEW DRAWING	

DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	T.ANYZIKHA
CHECKED BY	A.AHUSMAN
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2026

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TITLE POLE SUBSTATION CONSTRUCTIONS SINGLE POLE SUBSTATION LV BRIDGING ARRANGEMENTS 1-PHASE & 2-PHASE LV BARE		SCALE NTS	REVISION C
D - OHC - E107 - SD - 002		A4	

1 2 3 4 5 6 7

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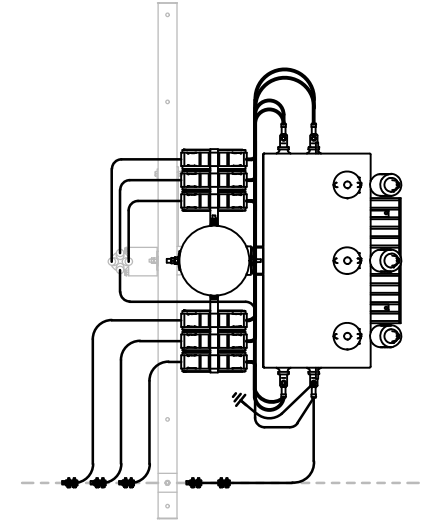
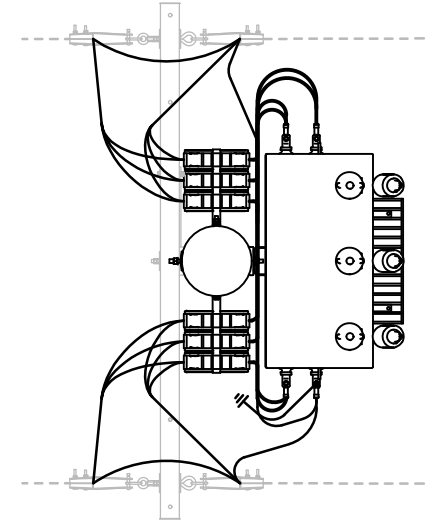
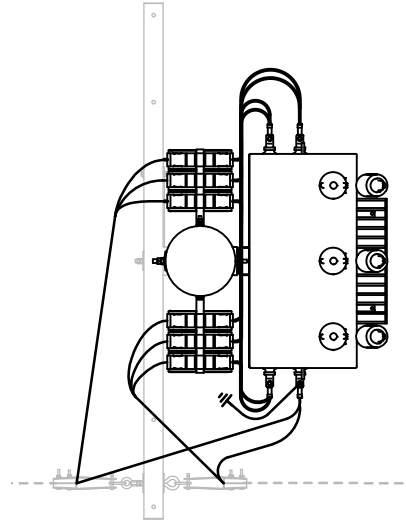
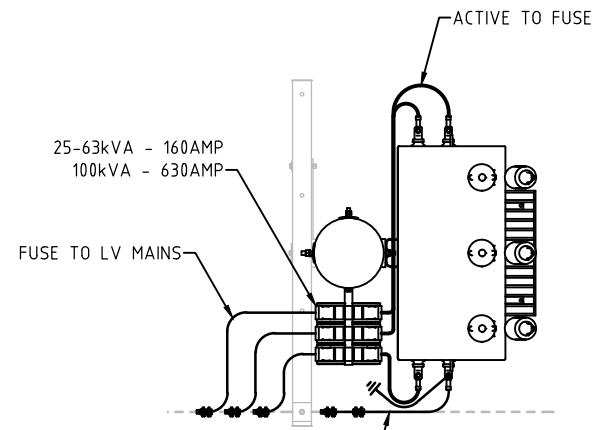
EXAMPLE:
3-PHASE 25-100kVA LVABC INTERMEDIATE
ON LVIS (SI 323215) CROSSARM
USE SAME ARRANGEMENT WHEN
ABC ATTACHED TO POLE

EXAMPLE:
3-PHASE 200-315kVA LVABC STRAIN
ON LVISL (SI 323217) CROSSARM
USE SAME ARRANGEMENT WHEN
ABC ATTACHED TO POLE

EXAMPLE:
3-PHASE 315-500kVA LVABC STRAIN
ON LVISL (SI 323217) CROSSARM
WITH PARALLEL ABC
TO GET LOAD AWAY FROM 500kVA

EXAMPLE:
3-PHASE 315-500kVA LVABC INTERMEDIATE
ON LVISL (SI 323217) CROSSARM
UNDERGROUND AND OVERHEAD ARRANGEMENT

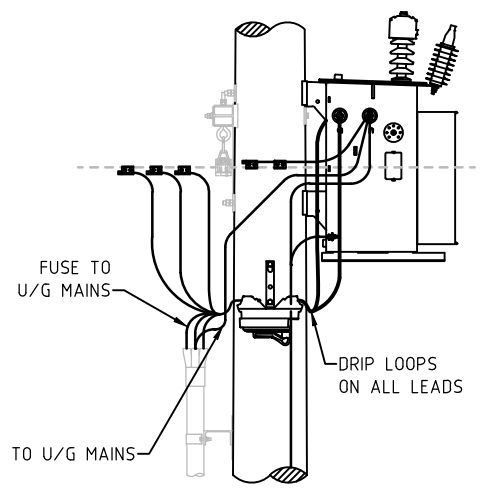
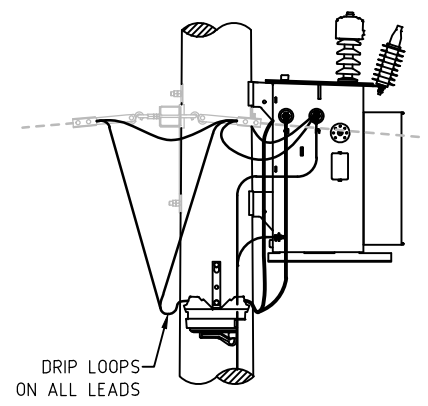
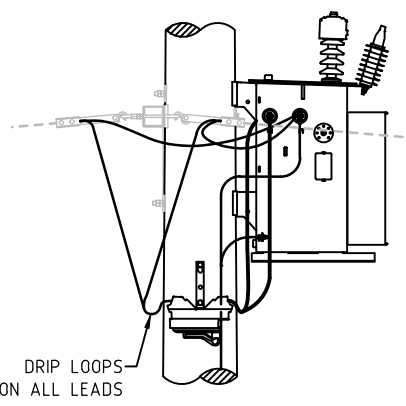
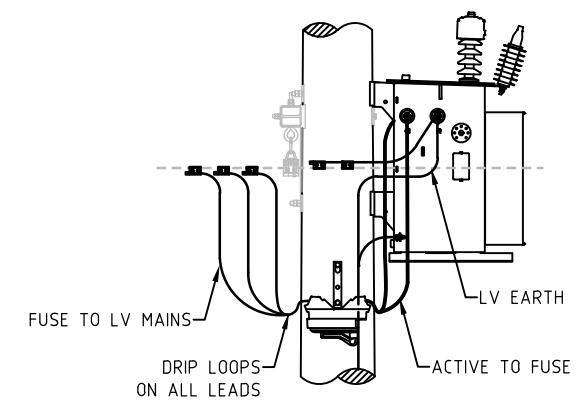
B



C

NEUTRAL TO MAINS NEUTRAL
CONNECTIONS DOUBLE IPC OR CONNECT
TAILS DIRECT TO NEUTRAL BUSHING

D



E

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 01/04/2026

ALTERATIONS	ORIGINAL ISSUE

REFERENCE
NEW DRAWING

DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	T.AMYZHA
CHECKED BY	A.AUSSAN
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2024

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TITLE	POLE SUBSTATION CONSTRUCTIONS SINGLE POLE SUBSTATION LV BRIDGING ARRANGEMENTS 3-PHASE LV ABC	SCALE NTS
		A4
	D - OHC - E107 - SD - 003	REVISION C

1 2 3 4 5 6 7

A

B

C

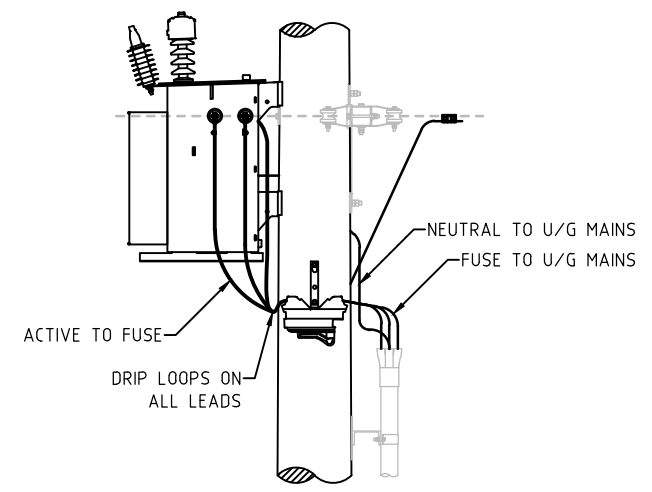
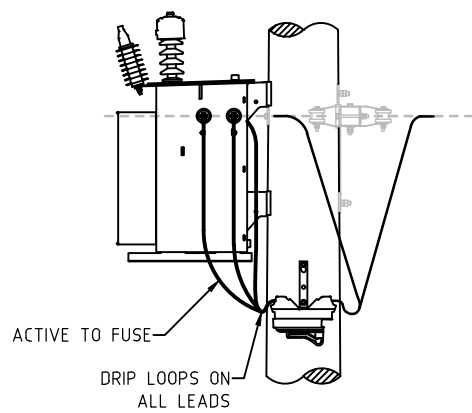
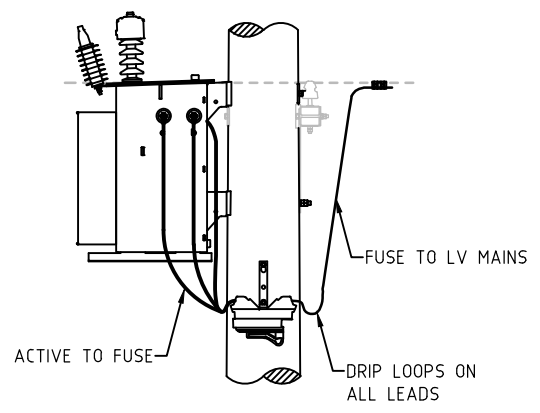
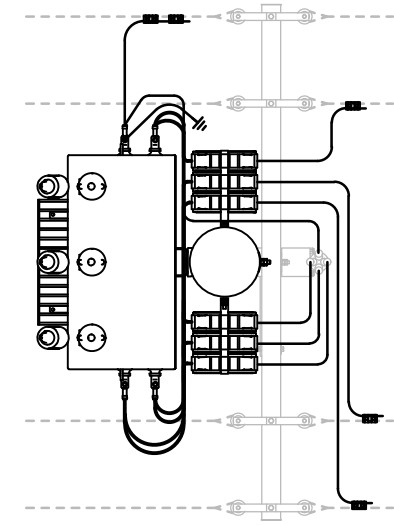
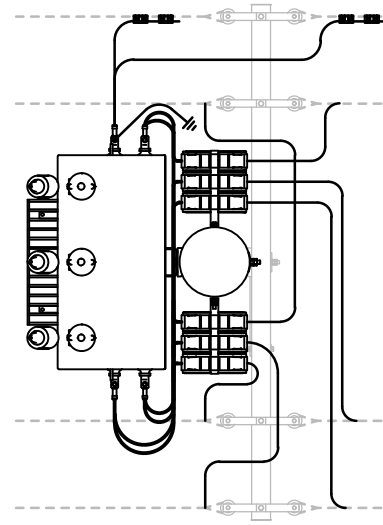
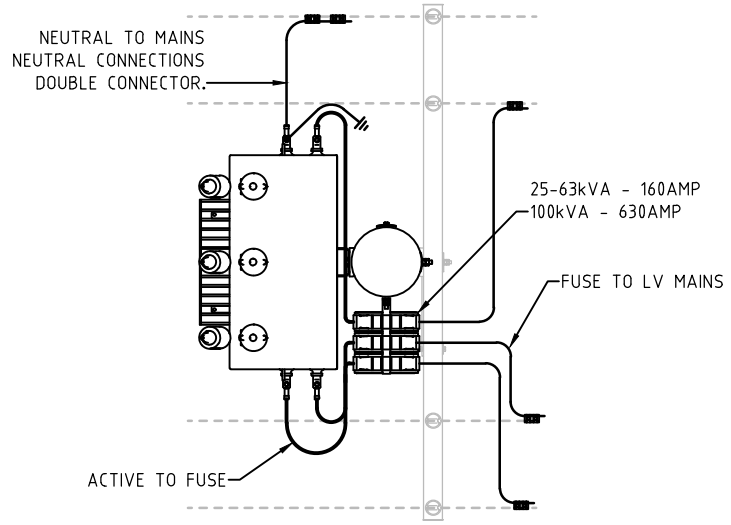
D

E

EXAMPLE:
3-PHASE 25-100kVA LVBARE INTERMEDIATE
ON LVISL (SI 323217) CROSSARM

EXAMPLE:
3-PHASE 200-500kVA LVBARE STRAIN
ON LVISL (SI 323217) CROSSARM
315-500kVA WITH MIN. 7/4.50 AAC OR 19/.083 Cu
TO GET LOAD AWAY FROM 500kVA

EXAMPLE:
3-PHASE 315-500kVA LVBARE STRAIN
ON LVISL (SI 323217) CROSSARM
UNDERGROUND AND OVERHEAD ARRANGEMENT



NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

EMF/PDF CREATION DATE 01/04/2026

ALTERATIONS	ORIGINAL ISSUE	

REFERENCE
NEW DRAWING

DRAWN	ANSS
DRAFTING CHECK	ANSS
DESIGNED BY	T.ANYZHA
CHECKED BY	A.JUSSAN
APPROVED BY	B.PAPALIA
DATE APPROVED	02-01-2024

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TITLE POLE SUBSTATION CONSTRUCTIONS SINGLE POLE SUBSTATION LV BRIDGING ARRANGEMENTS 3-PHASE LV BARE		SCALE NTS A4 REVISION C
D - OHC - E107 - SD - 004		

DWG STATUS STANDARD

BM DWG NO D-OHC-E107-SD-004

BM REV C

1 2 3 4 5 6 7

TRANSFORMER kVA	22kV TRANSFORMER FUSE SIZES						FUSE BASE
	HV FUSE RATING (AMPS)				LV FUSE RATING (AMPS)		
	HRC	FAULT TAMER	EDO	BORIC ACID	1x250V	2x250V	
10 1-PH	N/A	5	6/20	6	63	63	160A
15 1-PH	N/A	5	6/20	6	100	63	160A
25 1-PH	N/A	5	6/20	6	160	100	160A
50 1-PH	N/A	5	6/20	6	315	160	*630A

* FOR 50kVA CONFIGURED TO 1-PH ONLY A SINGLE 630AMP FUSE BASE TO BE USED OR 2x 160AMP FUSE BASES WHEN SPLIT PHASED

TRANSFORMER kVA	11kV TRANSFORMER FUSE SIZES						FUSE BASE
	HV FUSE RATING (AMPS)				LV FUSE RATING (AMPS)		
	HRC	FAULT TAMER	EDO	BORIC ACID	1x250V	2x250V	
10 1-PH	N/A	5	6/20	6	63	63	160A
15 1-PH	N/A	5	6/20	6	100	63	160A
25 1-PH	N/A	5	6/20	6	160	100	160A
50 1-PH	N/A	10	16	15	315	160	*630A

* FOR 50kVA CONFIGURED TO 1-PH ONLY A SINGLE 630AMP FUSE BASE TO BE USED OR 2x 160AMP FUSE BASES WHEN SPLIT PHASED

TRANSFORMER kVA	22kV TRANSFORMER FUSE SIZES						FUSE BASE
	HV FUSE RATING (AMPS)				LV FUSE RATING (AMPS)		
	HRC	FAULT TAMER	EDO	BORIC ACID	1xSET	2xSETS	
10 3-PH	N/A	5	6/20	6	40	N/A	160A
15 3-PH	N/A	5	6/20	6	40	N/A	160A
25 3-PH	N/A	5	6/20	6	63	N/A	160A
50 3-PH	5	5	6/20	6	100	N/A	160A
63 3-PH	5	5	6/20	6	125	N/A	160A
100 3-PH	10	5	6/20	6	200	N/A	630A
200 3-PH	16	15	16	15	315	200	630A
300 3-PH	20	20	25	25	450	315	630A
315 3-PH	20	20	25	25	450	315	630A
500 3-PH	40	N/A	25	25	630	450	**630A

** FOR 500kVA USED FOR A SINGLE CUSTOMER WHERE A LARGER FUSE SIZE IS REQUIRED REFER TO ENGINEERING.

TRANSFORMER kVA	11kV TRANSFORMER FUSE SIZES						FUSE BASE
	HV FUSE RATING (AMPS)				LV FUSE RATING (AMPS)		
	HRC	FAULT TAMER	EDO	BORIC ACID	1xSET	2xSETS	
10 3-PH	N/A	5	6/20	6	40	N/A	160A
15 3-PH	N/A	5	6/20	6	40	N/A	160A
25 3-PH	N/A	5	6/20	6	63	N/A	160A
50 3-PH	10	5	6/20	6	100	N/A	160A
63 3-PH	10	5	6/20	6	125	N/A	160A
100 3-PH	16	15	16	15	200	N/A	630A
200 3-PH	31.5	20	25	25	315	200	630A
300 3-PH	40	N/A	50	50	450	315	630A
315 3-PH	40	N/A	50	50	450	315	630A
500 3-PH	50	N/A	50	50	630	450	**630A

** FOR 500kVA USED FOR A SINGLE CUSTOMER WHERE A LARGER FUSE SIZE IS REQUIRED REFER TO ENGINEERING.

TRANSFORMER kVA	12.7kV TRANSFORMER FUSE SIZES (SWER)						FUSE BASE
	HV FUSE RATING (AMPS)				LV FUSE RATING (AMPS)		
	HRC	FAULT TAMER	EDO	BORIC ACID	1xSET	2xSETS	
10 1-PH	N/A	5	6/20	6	63	63	160A
15 1-PH	N/A	5	6/20	6	100	63	160A
25 1-PH	N/A	5	6/20	6	160	100	160A
50 1-PH	N/A	10	16	15	315	160	*630A

* FOR 50kVA CONFIGURED TO 1-PH ONLY A SINGLE 630AMP FUSE BASE TO BE USED OR 2x 160AMP FUSE BASES WHEN SPLIT PHASED

TRANSFORMER kVA	6.6kV TRANSFORMER FUSE SIZES						FUSE BASE
	HV FUSE RATING (AMPS)				LV FUSE RATING (AMPS)		
	HRC	FAULT TAMER	EDO	BORIC ACID	1x250V	2x250V	
100 3-PH	N/A	20	25	25	200	N/A	160A


TRANSFORMER kVA	22/12.7kV ISOLATING TRANSFORMER FUSE SIZES (SWER)						FUSE BASE
	HV FUSE RATING (AMPS)				LV FUSE RATING (AMPS)		
	HRC	FAULT TAMER	EDO	BORIC ACID	1xSET	2xSETS	
25	N/A	5	6/20	6	REFER TO ENGINEERING		160A
50	N/A	5	6/20	6	REFER TO ENGINEERING		160A
100	N/A	15	16	15	63	40	160A

NOTES:

1. DATA EXTRACTED FROM DISTRIBUTION SWITCHGEAR OPERATIONS MANUAL VERSION 10.0.

EMF/PDF CREATION DATE 05/12/2025

ALTERATIONS ORIGINAL ISSUE

NEW DRAWING	REFERENCE	 TasNetworks trading as TasNetworks ABL 24 167 357 299	© Tasmanian Networks PTY. LTD. 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	SCALE
				NTS
			TITLE	REVISION
			POLE SUBSTATION CONSTRUCTIONS SINGLE POLE SUBSTATION FUSE TABLES	A4
			D - OHC - E108 - SD - 001	A

BM DWG NO D-OHC-E108-SD-001

BM REV A

BOM No. in SAP	APL	Material BOM Description	Drawing
710231	OH/TX/MOUNTING/25-63	OH, TRANSFORMER MOUNTING, 25-63KVA	D-OHC-E101-SD-001
710232	OH/TX/MOUNTING/100-500	OH, TRANSFORMER MOUNTING, 100-500KVA	D-OHC-E101-SD-001
710234	OH/TX/HVLEAD	OH, TRANSFORMER HV LEAD	D-OHC-E101-SD-002
710235	OH/TX/LVLEAD/95/2C	OH, TRANSFORMER LV LEAD, 95MM, 2 CORE	D-OHC-E101-SD-005
710236	OH/TX/LVLEAD/95/4C	OH, TRANSFORMER LV LEAD, 95MM, 4 CORE	D-OHC-E101-SD-006
710237	OH/TX/LVLEAD/150	OH, TRANSFORMER LV LEAD, 150MM, 4 CORE	D-OHC-E101-SD-007
710238	11/TX/1/25/1CCT	11KV, TRANSFORMER, 25KVA, 1PH, 1CCT	D-OHC-E102-SD-002
710239	11/TX/1/50/1CCT	11KV, TRANSFORMER, 50KVA, 1PH, 1CCT	D-OHC-E102-SD-002
710240	22/TX/1/25/1CCT	22KV, TRANSFORMER, 25KVA, 1PH, 1CCT	D-OHC-E102-SD-002
710241	22/TX/1/50/1CCT	22KV, TRANSFORMER, 50KVA, 1PH, 1CCT	D-OHC-E102-SD-002
710242	11/TX/3/25/1CCT	11KV, TRANSFORMER, 25KVA, 3PH, 1CCT	D-OHC-E103-SD-003
710243	11/TX/3/63/1CCT	11KV, TRANSFORMER, 63KVA, 3PH, 1CCT	D-OHC-E103-SD-003
710244	11/TX/3/100/1CCT	11KV, TRANSFORMER, 100KVA, 3PH, 1CCT	D-OHC-E103-SD-003
710245	11/TX/3/200/1CCT	11KV, TRANSFORMER, 200KVA, 3PH, 1CCT	D-OHC-E103-SD-003
710246	11/TX/3/315/1CCT	11KV, TRANSFORMER, 315KVA, 3PH, 1CCT	D-OHC-E103-SD-003
710247	11/TX/3/500/1CCT	11KV, TRANSFORMER, 500KVA, 3PH, 1CCT	D-OHC-E103-SD-003
710248	22/TX/3/25/1CCT	22KV, TRANSFORMER, 25KVA, 3PH, 1CCT	D-OHC-E103-SD-004
710249	22/TX/3/63/1CCT	22KV, TRANSFORMER, 63KVA, 3PH, 1CCT	D-OHC-E103-SD-004
710250	22/TX/3/100/1CCT	22KV, TRANSFORMER, 100KVA, 3PH, 1CCT	D-OHC-E103-SD-004
710251	22/TX/3/200/1CCT	22KV, TRANSFORMER, 200KVA, 3PH, 1CCT	D-OHC-E103-SD-004
710252	22/TX/3/315/1CCT	22KV, TRANSFORMER, 315KVA, 3PH, 1CCT	D-OHC-E103-SD-004
710253	22/TX/3/500/1CCT	22KV, TRANSFORMER, 500KVA, 3PH, 1CCT	D-OHC-E103-SD-004
710254	12.7/TX/1/25/1CCT	12.7KV, TRANSFORMER, 25KVA, 1CCT	D-OHC-E105-SD-003
710255	12.7/TX/1/50/1CCT	12.7KV, TRANSFORMER, 50KVA, 1CCT	D-OHC-E105-SD-003
710256	12.7/TX/1/100/ISO	12.7KV, ISO TRANSFORMER, 100KVA	D-OHC-E105-SD-001
710676	11/TX/1/25/2CCT	11KV, TRANSFORMER, 25KVA, 1PH, 2CCT	D-OHC-E102-SD-002
710678	11/TX/1/50/2CCT	11KV, TRANSFORMER, 50KVA, 1PH, 2CCT	D-OHC-E102-SD-002
710767	22/TX/1/25/2CCT	22KV, TRANSFORMER, 25KVA, 1PH, 2CCT	D-OHC-E102-SD-002
710769	22/TX/1/50/2CCT	22KV, TRANSFORMER, 50KVA, 1PH, 2CCT	D-OHC-E102-SD-002

710770	11/TX/3/200/2CCT	11KV, TRANSFORMER, 200KVA, 3PH, 2CCT	D-OHC-E103-SD-003
710771	11/TX/3/315/2CCT	11KV, TRANSFORMER, 315KVA, 3PH, 2CCT	D-OHC-E103-SD-003
710772	11/TX/3/500/2CCT	11KV, TRANSFORMER, 500KVA, 3PH, 2CCT	D-OHC-E103-SD-003
710773	22/TX/3/200/2CCT	22KV, TRANSFORMER, 200KVA, 3PH, 2CCT	D-OHC-E103-SD-004
710774	22/TX/3/315/2CCT	22KV, TRANSFORMER, 315KVA, 3PH, 2CCT	D-OHC-E103-SD-004
710775	22/TX/3/500/2CCT	22KV, TRANSFORMER, 500KVA, 3PH, 2CCT	D-OHC-E103-SD-004
710776	OH/TX/TBRACKET/1	OH, TRANSPOSITION BRACKET, 1PH	D-OHC-E101-SD-003
710777	OH/TX/TBRACKET/3	OH, TRANSPOSITION BRACKET, 3PH	D-OHC-E101-SD-004
710778	12.7/TX/1/25/2CCT	12.7KV, TRANSFORMER, 25KVA, 2CCT	D-OHC-E105-SD-003
710779	12.7/TX/1/50/2CCT	12.7KV, TRANSFORMER, 50KVA, 2CCT	D-OHC-E105-SD-003