

# Western Power's Asset Management System

## Distribution Construction Standard Handbook High Voltage Overhead Part 04 (H)



Original Issue: August 2008

Content Owner/Custodian: Distribution Design and Standards

This Revision: May 2026

Date for Next Review: May 2028

© Western Power  
ABN 18540492861



## Document control

### Endorsement approvals

	Name	Title	Signature and Date
Compiled by	Nory Cerrado	Distribution Draftsperson	Signature on file
Checked by	Chris Omodei	Principal Engineer	Signature on file
Endorsed by	Ken Tiong	Team Leader	Signature on file
Approved by	Pep Ngwenya	Distribution Design & Standards Manager	Signature on file

### Record of revisions

Revision No.	Date	Version	Compiled by	Description
1	09/05/2025	EDM 51	Nory Cerrado	First Revision with new Format and 3 yearly review
2	14/07/2025	Volt 52	Nory Cerrado	Refer to Amendment List
3	22/12/2025	Volt 54	Nory Cerrado	Refer to Amendment List
4	25/05/2026	Volt 55	Nory Cerrado	Refer to Amendment List

This document gives direction to and influences the following documents.

Doc	Title of document
ALL CHAPTERS	DDC - DISTRIBUTION DESIGN CATALOGUE
ALL CHAPTERS	DCSH - DISTRIBUTION CONSTRUCTION STANDARD HANDBOOK
ALL CHAPTERS	DSPM - DISTRIBUTION SUBSTATION PLANT MANUAL

**Stakeholders** (people that were consulted when document was updated)

#### Business Unit / Function

Asset Management - Asset Performance

Asset Management – Safety Environment Quality and Training

Asset Management - Grid Transformation

Asset Operations – Network Operations

Asset Operations – Operational Services

Asset Operations – Customer Connection Services

Business and Customer Service – Customer Service

**Notification list** (people to be notified when document is updated)

#### Business Unit / Function

Asset Management - Asset Performance

Asset Management – Safety Environment Quality and Training

Asset Management - Grid Transformation

Asset Operations – Network Operations

Asset Operations – Operational Services

---

Asset Operations – Customer Connection Services

---

Business and Customer Service – Customer Service

---

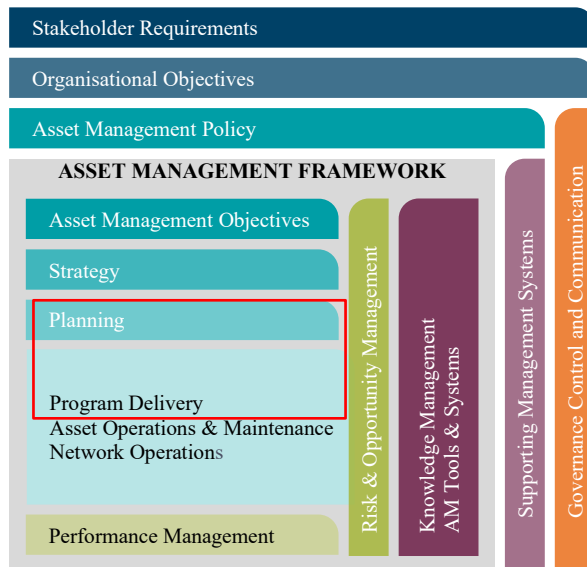
This document must not be made available to personnel outside Western Power without the prior written approval of Western Power.

## Document classification and hierarchy

A key requirement of the Western Power Asset Management Policy (AMP) is to develop and maintain an Asset Management System (AMS). This Distribution Substation Plant Manual is defined as a technical document within the AMS document classification and structure and sits within the planning and Program Delivery components of the AMS.

The AMS and the interrelationships between the collection of documents, tools and systems that are used for asset management are described in the AMS document AMS document Volt ID

ID-005-dc7f342fed83eb7f008777ff0463b876.



## General Notes

Clearances of conductors from ground, other structures and other conductors shall be undertaken in accordance with Western Power's Overhead Line Design Standard.

HV Insulated Taps are to be used where wildlife protection against contact with earth or another phase is required, using either –

- 1) LVABC may be used for connection to for mounted transformers and cable heads supplying ground mounted transformers,
- 2) For all other applications, use a conductor to match the conductors being joined, and fit this conductor with grey flexible hose with drain holes cut at the bottom of the drip loops to drain moisture.

Pole strength and height selections for poles without pole top plant shall be determined as per Poles 'n' Wires assessments, unless stated otherwise under the specific DCSH reference.

In general, the following rules apply when selecting pole strengths with pole top plant, unless stated otherwise under the specific DCSH references:

- For 315kVA Pole Top Transformers: use 8kN poles
- For single phase Pole Top Transformers: use 4kN poles as minimum
- For all other pole top plant and pole top switches: use 6kN poles as a minimum

When pole mounted equipment (e.g. transformers, reclosers, etc.) is installed, taller poles may be required to maintain clearances.

### © Copyright of Western Power

Any use of this material except in accordance with a written agreement with Western Power is prohibited.

## Drawing Register

Number	Revision	DESCRIPTION
H01-1	J	3 PHASE INTERMEDIATE
H01-3	L	3 PHASE INTERMEDIATE ANTI-SWAN CROSSARM GUIDE
H01-4	C	3 PHASE INTERMEDIATE DOUBLE CROSS-ARM
H02-1	F	3 PH INTERMEDIATE SINGLE PHASE TEE-OFF WITH/WITHOUT DOF
H02-2	B	3 PH INTERMEDIATE SINGLE PHASE TEE-OFF WITH/WITHOUT DOF ALT. MAIN RE
H03	F	4 WAY INTERMEDIATE
H04-1	J	HORIZONTAL TERMINATION
H04-2	D	HORIZONTAL TERMINATION - ANTI-SWAN CROSS-ARM
H04-3	C	DOUBLE TERMINATION AND 1 PH T-OFF WITH DOF
H05-1	G	STRAIN ANGLE WITH OR WITHOUT DROPOUT FUSE
H05-2	E	STRAIN ANGLE UPTO 30° DEVIATION - DOUBLE ANTI-SWAN CROSS-ARM
H05-3	C	STRAIN ANGLE DOUBLE ANTI SWAN CROSS-ARM - LONG BAY
H05-4	A	3Φ x 3 POLE LONG BAY SOLUTION FOR ANGLE DEVIATION UP TO 45°
H05-5	A	3PH IN-LINE STRAIN WITH TEE OFF
H06	L	RUNNING DISC ANGLE OR VERTICAL TERMINATION (900mm SPACING)
H07	H	RUNNING DISC ANGLE OR VERTICAL TERMINATION (1200mm SPACING)
H08-1	C	INTERMEDIATE CABLE WITH DROPOUT FUSES
H08-2	D	INTERMEDIATE CABLE WITH DROPOUT FUSES (ALTERNATE CROSSARM)
H08-3	A	INTERMEDIATE CABLE WITHOUT DROPOUT FUSES
H09-1	G	TERMINATION CABLE WITH DROPOUT FUSES UPSTREAM
H09-2	E	TERMINATION & CABLE WITH DROPOUT FUSES
H09-3	C	3 PHASE TERMINATION & CABLE WITH FUSED SINGLE-PHASE TEE-OFF
H09-4	A	TERMINATION CABLE SINGLE PHASE TX AND DOF
H10-1	L	INTERMEDIATE TRANSFORMER HV TO OPEN AERIAL
H10-2	N	INTERMEDIATE TRANSFORMER HV TO ABC
H11-1	K	IN-LINE TERMINATION TRANSFORMER
H11-2	I	SIDE MOUNTED TERMINATION TRANSFORMER WITH DROPOUT FUSES
H11-3	D	SIDE MOUNTED TERMINATION TRANSFORMER STRAIN
H12	E	POLE TOP SWITCH INCLUDING EARTH
H13-1	F	TEE-OFF WITH DROPOUT FUSES
H13-2	C	TEE-OFF WITHOUT DROPOUT FUSES
H14-1	C	COMBINATION SWITCH & FUSE WITH RAISER (FLY-OVER SWITCH)
H14-2	B	COMBINATION SWITCH & FUSE
H14-3	D	PTS & FUSES/ISOLATORS LAYOUT FOR 2 CABLES
H17-4	D	TRANSFORMER CABLE SUPPLIED
H18	E	TERMINATION POLE TOP SWITCH WITH CABLE AND DROPOUT FUSE
H19	E	TERMINATION POLE TOP SWITCH WITH CABLE ARRANGEMENT
H20-1	E	ISOLATION TRANSFORMER
H20-2	F	ISOLATION TRANSFORMER 3PH TERMINATION 1PH IN-LINE WITHOUT 1PH DROPOUT FUSE
H20-3	E	ISOLATION TRANSFORMER 3PH TERMINATION 1PH IN-LINE WITH DROPOUT FUSE
H20-4	E	ISOLATION TRANSFORMER 3PH TERMINATION 1PH IN-LINE WITH/WITHOUT DROPOUT FUSE

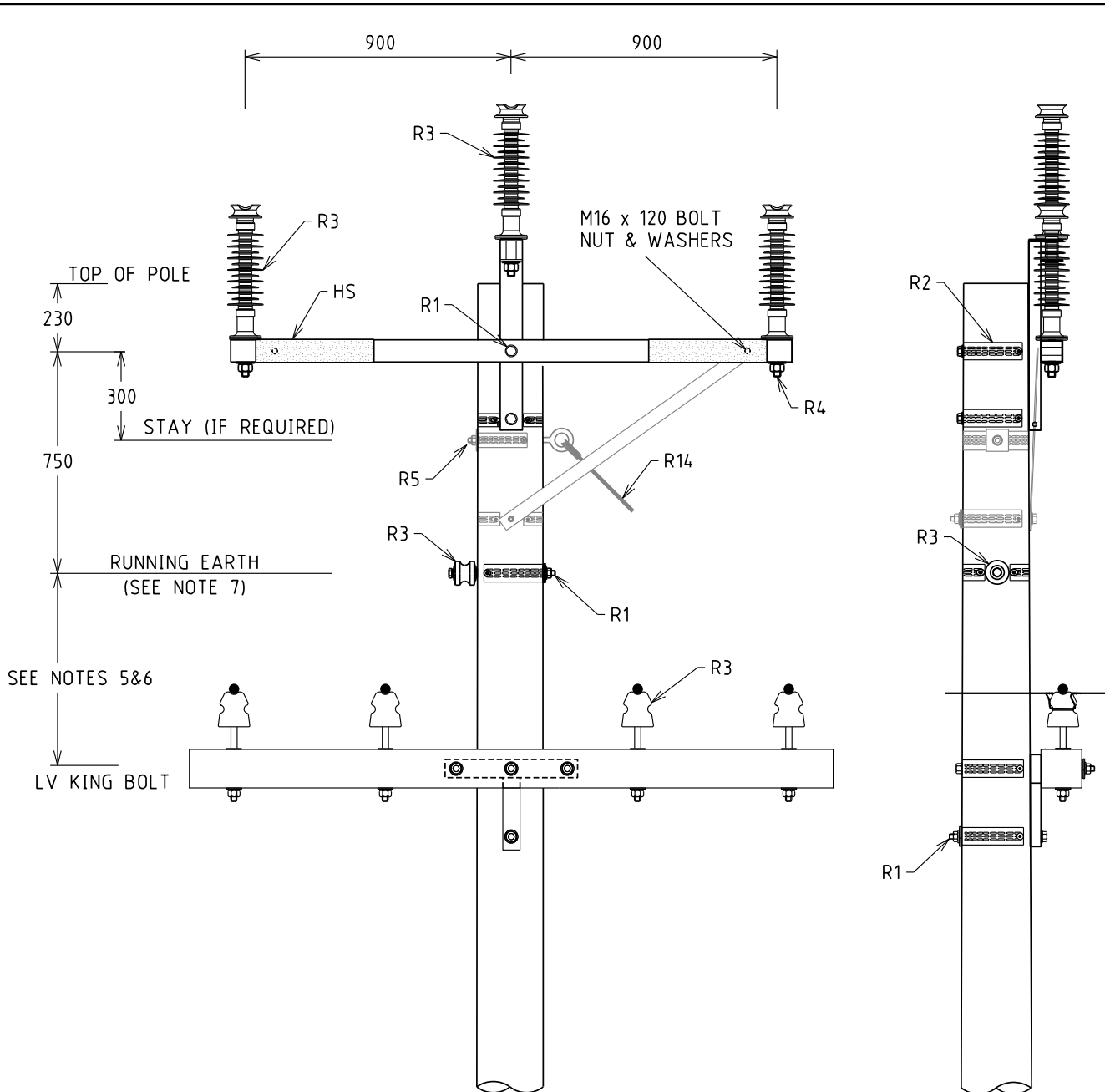
Number	Revision	DESCRIPTION
H20-5	G	ISOLATION TRANSFORMER 3PH CABLE/1PH TEE-OFF WITH DROPOUT FUSE/LINK
H20-6	E	ISOLATION TRANSFORMER 3PH IN-LINE/1PH TEE-OFF WITHOUT DROPOUT FUSE
H20-7	E	ISOLATION TRANSFORMER 3PH TERMINATION/1PH CABLE WITH DROP OUT FUSE
H21	E	METERING TRANSFORMER
H22	C	INTERMEDIATE WISHBONE WITH OVERHEAD EARTHWIRE
H23	C	INTERMEDIATE FLAT CONSTRUCTION WITH OVERHEAD EARTHWIRE
H24	D	TERMINATION TRANSFORMER WITH OVERHEAD EARTHWIRE
H25	C	INTERMEDIATE TRANSFORMER WISHBONE CONSTRUCTION
H26-1	C	VERTICAL STRAIN
H26-2	A	INLINE STRAIN WITH OVER HEAD EARTH WIRE
H27	B	WISHBONE CONSTRUCTION WITH TEE-OFF
H28	B	VERTICAL STRAIN ANGLE
H29-1	C	FAULT INDICATOR LV AERIAL SUPPLY ARRANGEMENT
H30	C	SURGE ARRESTER STANDARD LINE INSTALLATION
H31	G	22kV CAPACITOR BANK WITH 10 kVA TRANSFORMER (SINGLE/DOUBLE BUSHING)
H32	I	33kV CAP BANK WITH SWITCH AND 10kVA OR 25kVA TRANSFORMER (SINGLE/TWO BUSHING) CONNECTION DETAILS
H33-1	D	IN-LINE LAYOUT TYPE GE VR-1 50A-100A DETAILS
H33-2	D	IN-LINE DETAIL TYPE GE VR-1 50A-100A CONSTRUCTION DETAIL
H33-3	B	OFFSET DETAIL TYPE GE VR-1 50A-100A ARRANGEMENT
H33-4	B	OFFSET DETAIL TYPE GE VR-1 50A-100A CONSTRUCTION DETAIL
H34	B	SHUNT REACTOR
H40-1	F	INTERMEDIATE
H41-1	B	RUNNING DISC OR TERMINATION WITH / WITHOUT TERMINATION
H41-2	D	SINGLE PHASE STRAIN ANGLE
H42-1	C	SINGLE PHASE TEE-OFF TO STRAIN WITH OR WITHOUT DROPOUT FUSE
H42-2	A	INTERMEDIATE WITH CABLE TERMINATION
H43	D	TEE OFF WITHOUT DROPOUT FUSE
H44-1	E	DOUBLE TERMINATION
H44-2	B	TRIPLE TERMINATION
H46-1	J	SINGLE PHASE NETWORK INTERMEDIATE TRANSFORMER WITH OR WITHOUT DROPOUT FUSE
H46-2	B	3 PHASE NO RE OR 3 PHASE NETWORK AND 2 PHASE TRANSFORMER WITH DROPOUT FUSE
H47-1	G	SINGLE PHASE NETWORK AND TERMINATION TRANSFORMER WITH OR WITHOUT DROPOUT FUSE
H47-2	G	3 PHASE WITH RE NETWORK AND 1 PHASE TRANSFORMER WITH DROPOUT FUSE
H47-3	D	SINGLE PHASE NETWORK DOUBLE TERMINATION AND TRANSFORMER WITHOUT DROPOUT FUSE
H47-4	B	SINGLE PHASE NETWORK WITH CABLE TERMINATION AND TRANSFORMER WITH OR WITHOUT DROPOUT FUSE
H48-1	H	SINGLE PHASE TRANSFORMER MOUNTING FOR TWIN, TRIPLE OR QUAD ARRANGEMENT
H48-2	C	SINGLE PHASE 2 BUSHING TRANSFORMER MOUNTING FOR VERTICAL ARRANGEMENT
H49	C	EARTH & LV PHASE CONNECTIONS

Number	Revision	DESCRIPTION
H50	C	EARTH & LV PHASE CONNECTIONS THREE & FOUR TRANSFORMERS SETUP
H52-1	B	DOWN EARTH - RUNNING EARTH
H52-2	A	EXTENDED OR REMOTE DOWN EARTH - RUNNING EARTH
H53	B	1 PHASE IN-LINE STRAIN WITH SECTIONALISER & BY-PASS FUSE
H61-1	H	POLE MOUNTED 3 PH RECLOSER / LOAD BREAK SWITCH WITH BY-PASS SWITCH
H61-2	G	POLE MOUNTED 3 PH RECLOSER / LOAD BREAK SWITCH WITH BY-PASS SWITCH (AERIAL LV SUPPLY)
H63	F	1 PHASE RECLOSER / LOAD BREAK SWITCH BY-PASS ISOLATORS/STRAIN TERMINATION WITH SINGLE PHASE TX SUPPLY

**Drawings****HV HENDRIX**

H100	E	INTERMEDIATE POLE 0 - 2 DEGREES
H101	D	INTERMEDIATE ANGLE POLE 2 - 30 DEGREES
H102	C	INTERMEDIATE ANGLE POLE 31 - 60 DEGREES
H103	D	DOUBLE TERMINATION 61 - 90 DEGREES
H104	B	TERMINATION POLE FOR CABLE CONNECTION
H105	D	INTERMEDIATE TEE-OFF FROM EXISTING COVERED CONDUCTOR WITH DOF DRILLING DETAILS
H106	E	INTERMEDIATE TEE-OFF FROM EXISTING BARE CONDUCTOR WITH D.O.F DRILLING DETAILS
H107	D	INTERMEDIATE POLE CROSSING
H108-1	B	OPEN AERIAL TO COVERED CONDUCTOR WITH SURGE ARRESTERS
H108-2	C	STRAIN COVERED CONDUCTOR WITH SURGE ARRESTERS
H109	E	PTS COVERED CONDUCTOR TERMINATED MESSENGER WIRE
H110	E	PTS COVERED CONDUCTOR TO OPEN AERIAL
H111	G	INTERMEDIATE TRANSFORMER COVERED CONDUCTOR
H112	G	TERMINATION TRANSFORMER WITH DROP OUT FUSE

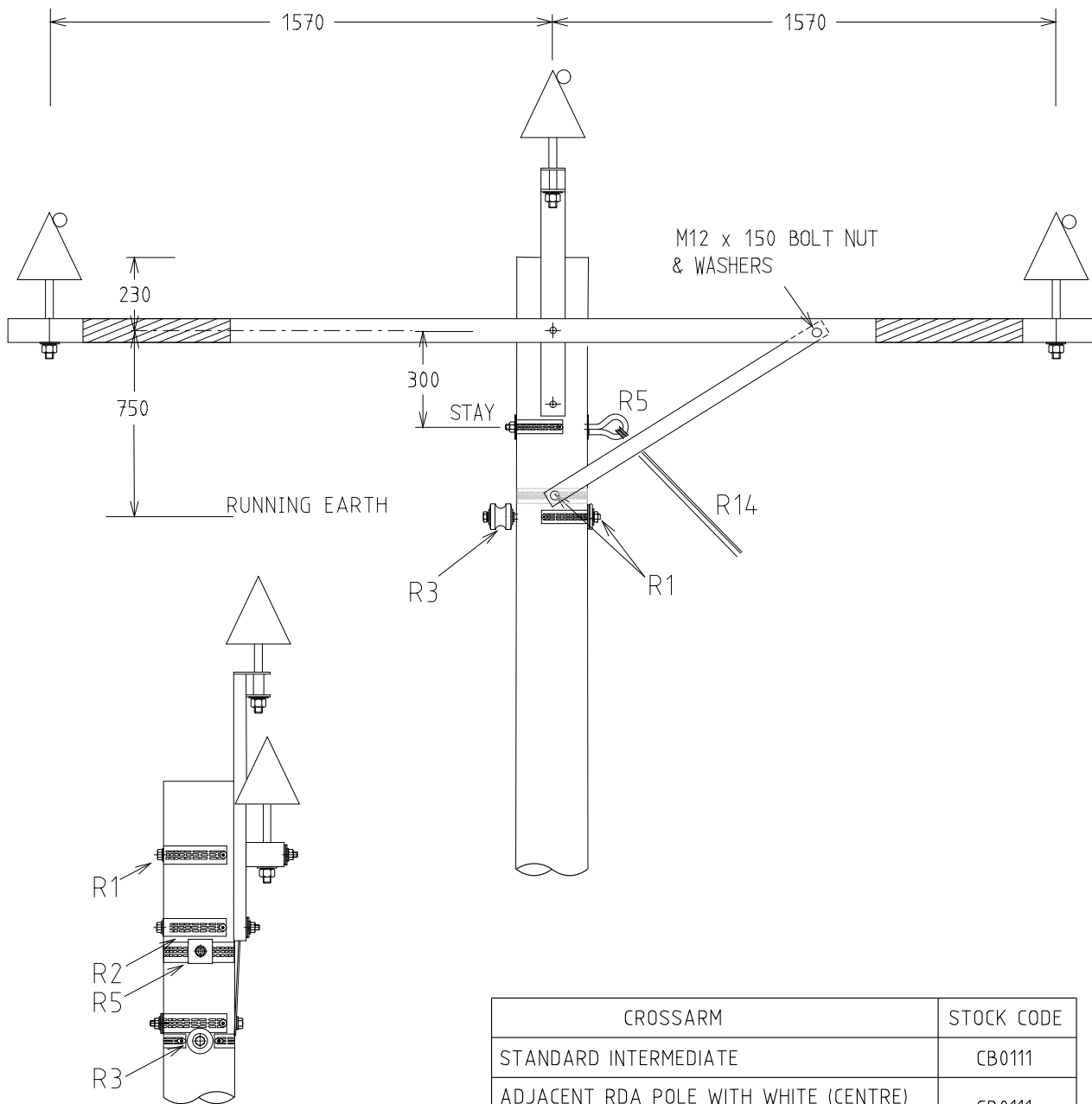
# HV BARE



**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18Ø U.O.N.
3. MAXIMUM DISTANCE BETWEEN DOWNEARTH WHEN RUNNING EARTH PRESENT = 600m
4. USE CROSSARM STRAP (HV1-CS) IF DEVIATION IS >10°
5. WHEN LV CONDUCTOR IS;
  - (a) LV BARE CONDUCTOR -  
650 IF R/E IS SCAC OR SCGZ  
1100 IF R/E IS AAAC.
  - (b) LV ABC  
450 FOR ALL TYPES OF R/E CONDUCTOR
6. IF THERE IS NO RUNNING EARTH THIS DISTANCE IS 450.
7. USE RUNNING EARTH INTERMEDIATE ANGLE, IF DEVIATION IS >2°.
8. IF LV DEVIATION IS >2° REFER TO DWG. L02.

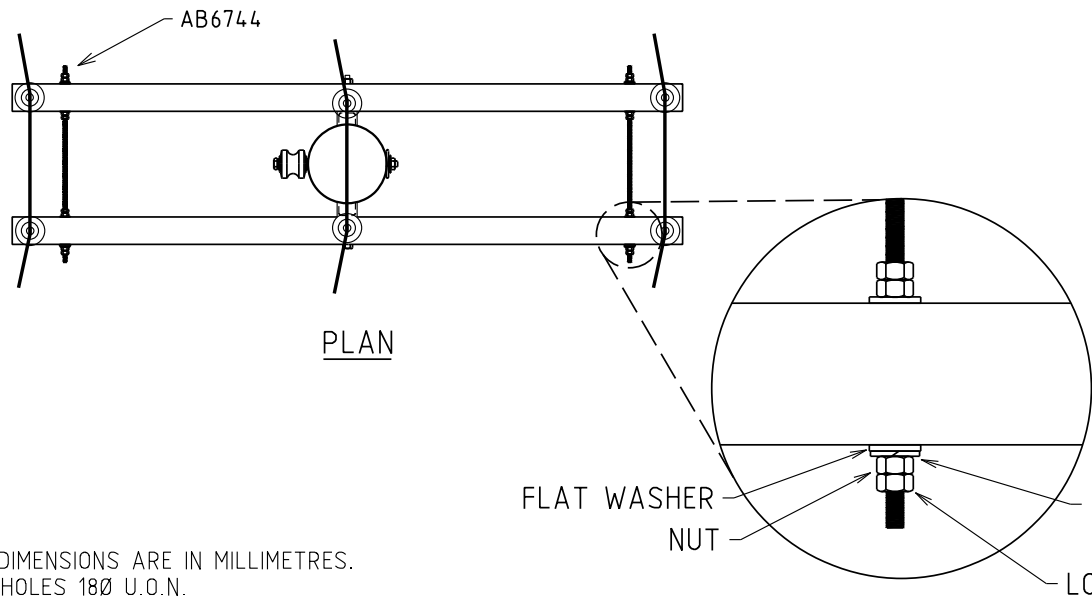
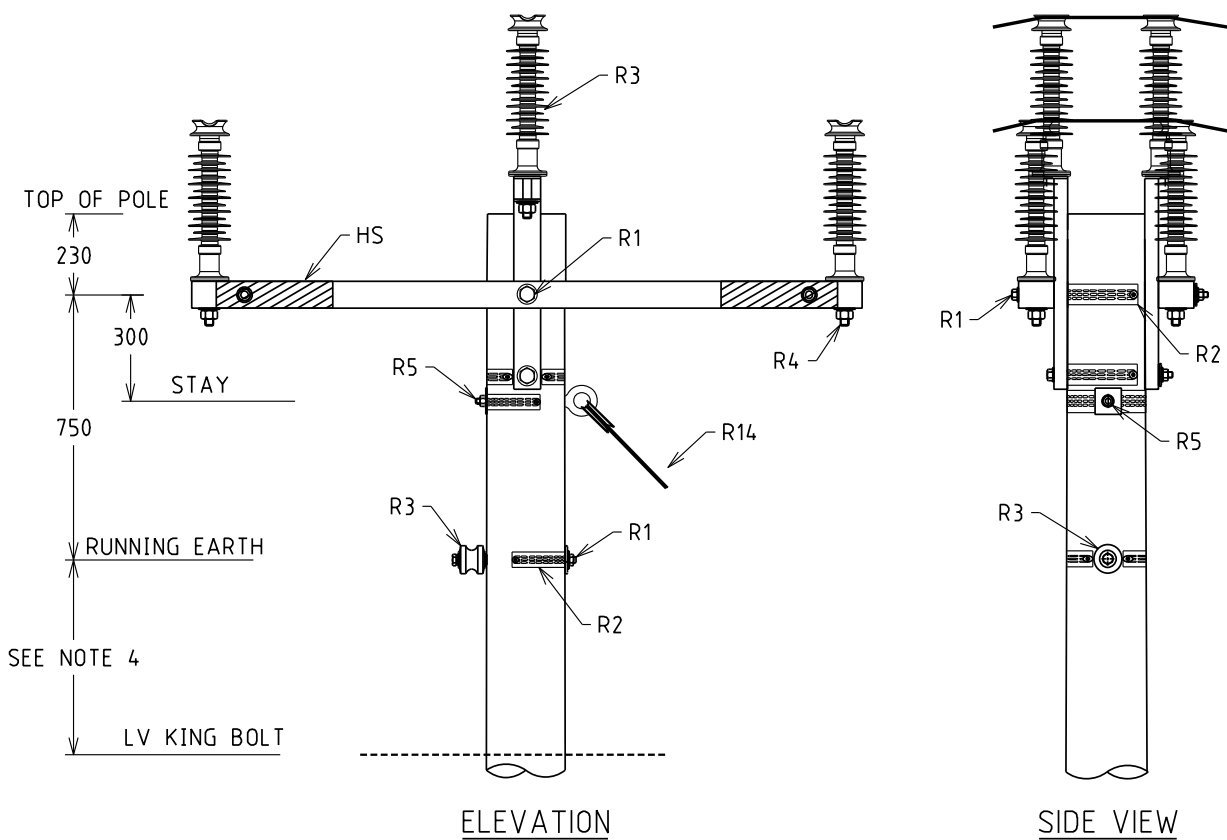
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD				
J	26.09.24	PLACE NOTE 4 FOR THE CROSSARM IN DRAWING	JG	VS	CO	TITLE	DRAWN: JRR	DATE: 01-04-2016	DRG. No.		
I	11.01.09	NOTE REGARDING TWO PHASE CONSTRUCTION DELETED	NC	REE	GS	3 PHASE INTERMEDIATE	ORIGINATED:	SCALE: NTS	H01-1		
H	13.09.17	NOTE 9 ADDED	JB	NMc	GS		CHECKED: REE				
G	16.06.17	DRAWINGS H01-1 & H01-2 COMBINED	GS	NMc	GS		APPROVED:				
F	24.09.14	NOTE 6 REVISED AND NOTE 7 ADDED					GRANT STACY	REV. J		SHT. 1/1	
REV.	DATE	DESCRIPTION	DRG.	CHKD.	APRD.						



CROSSARM	STOCK CODE
STANDARD INTERMEDIATE	CB0111
ADJACENT RDA POLE WITH WHITE (CENTRE) PHASE AT THE TOP - STANDARD	CB0111
ADJACENT RDA POLE WITH RED OR BLUE PHASE AT THE TOP - SHORT RAISER	CB0114

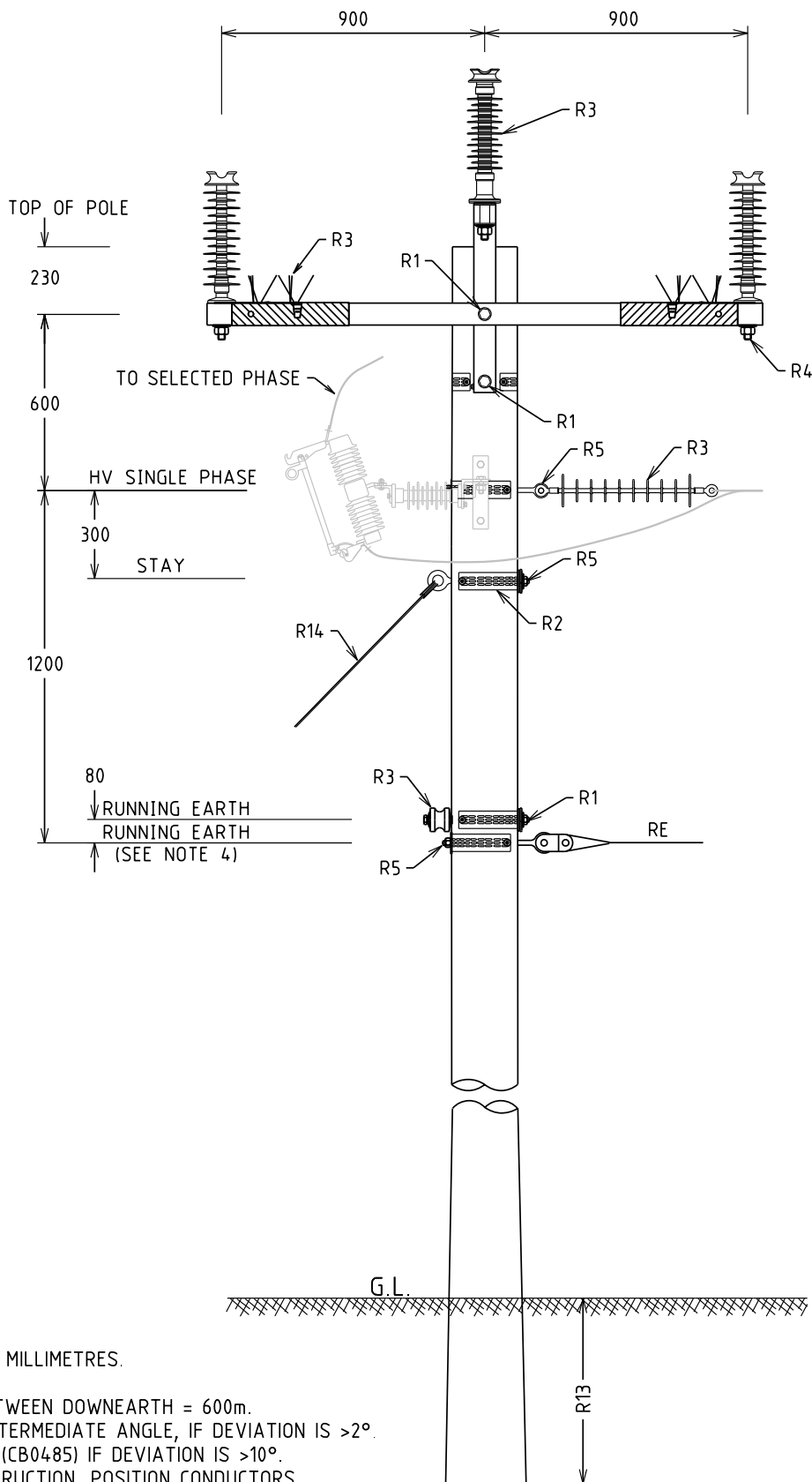
- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. ALL HOLES 18Ø U.O.N.
  3. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600m.
  4. USE CROSSARM STRAP (CB0485) IF DEVIATION IS >10°.

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower	
L	11.01.19	NOTE REGARDING TWO PHASE CONSTRUCTION DELETED	NC	REE	GS	TITLE	DRAWN: JRR	DATE: 01-04-2014	DRG. No.	H01-3
K	09.01.18	CROSSARM USE TABLE ADDED	CO	NMc	GS	3 PHASE INTERMEDIATE ANTI-SWAN CROSSARM GUIDE	ORIGINATED:	SCALE: NTS		
J	24.09.14	NOTE 4 ADDED			GS		CHECKED: REE			
H	14.08.14	DISPERSION PLATE FOR CROSSARM STRAP ADDED			GS		APPROVED: GRANT STACY	REV. L	SHT.	
G	07.07.14	DRAWING NUMBER CHANGED			GS					
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.					



- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. ALL HOLES 18Ø U.O.N.
  3. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600m
  4. REFER TO DWG. H01-1 NOTES FOR CLEARANCES BETWEEN RE & LV.

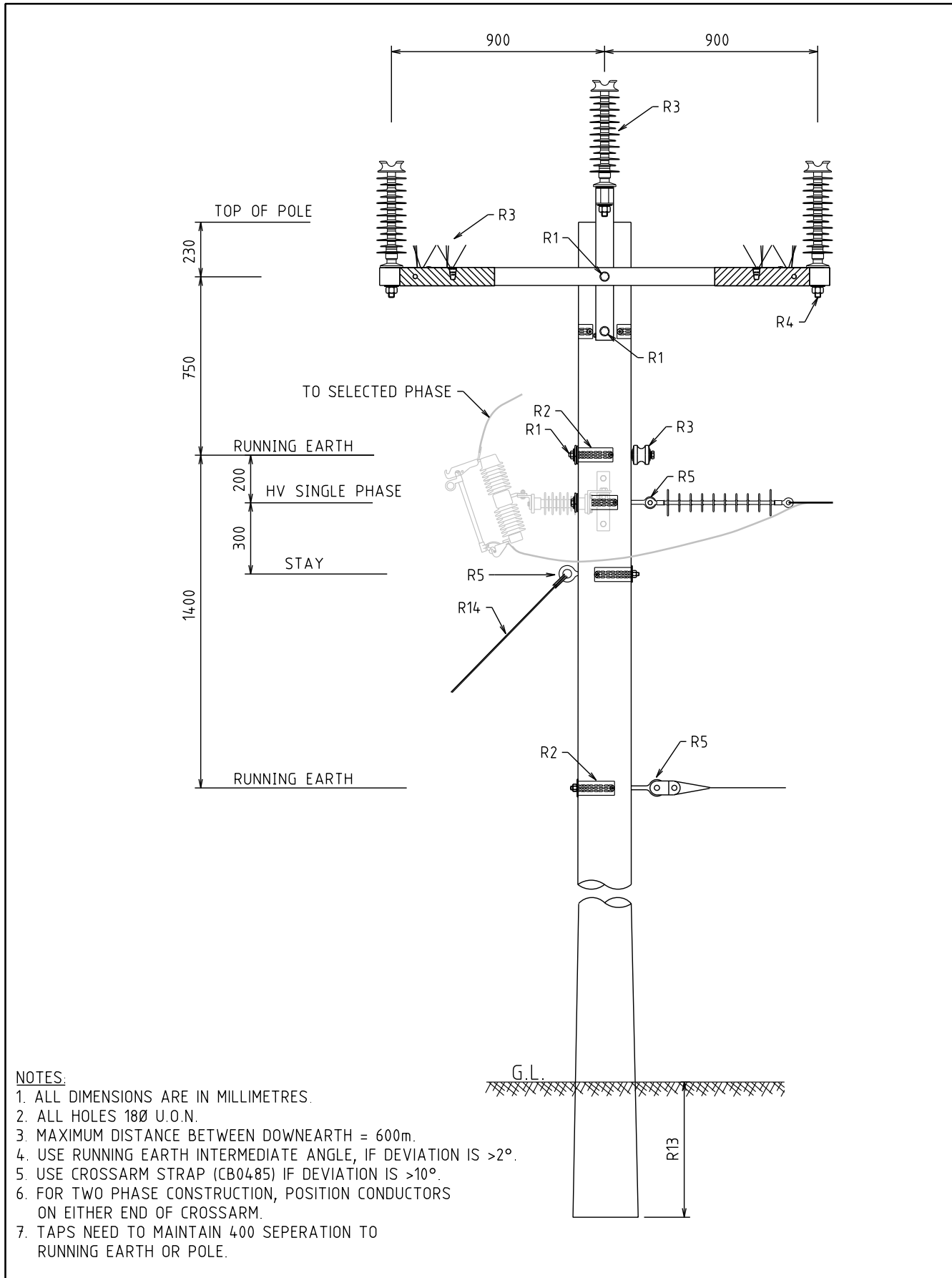
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower	
				TITLE			DRAWN: JRR DATE: 12-02-2016 DRG. No.		H01-4	
				3 PHASE INTERMEDIATE DOUBLE CROSS-ARM			ORIGINATED: AT SCALE: NTS			
							CHECKED: FK			
							APPROVED: GRANT STACY		REV. C	
REV	DATE	DESCRIPTION	ORGO	CHKD	APRD					
C	21.05.25	ADDED STOCK CODES AB674.4	VAS	NMc	CO					
B	11.01.19	NOTE REGARDING TWO PHASE CONSTRUCTION DELETED	NC	REE	GS					
A	05.05.16	ORIGINAL ISSUE	AT	FK	GS					



**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18Ø U.O.N.
3. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600m.
4. USE RUNNING EARTH INTERMEDIATE ANGLE, IF DEVIATION IS >2°.
5. USE CROSSARM STRAP (CB0485) IF DEVIATION IS >10°.
6. FOR TWO PHASE CONSTRUCTION, POSITION CONDUCTORS ON EITHER END OF CROSSARM.
7. TAPS NEED TO MAINTAIN 400 SEPERATION TO POLE.

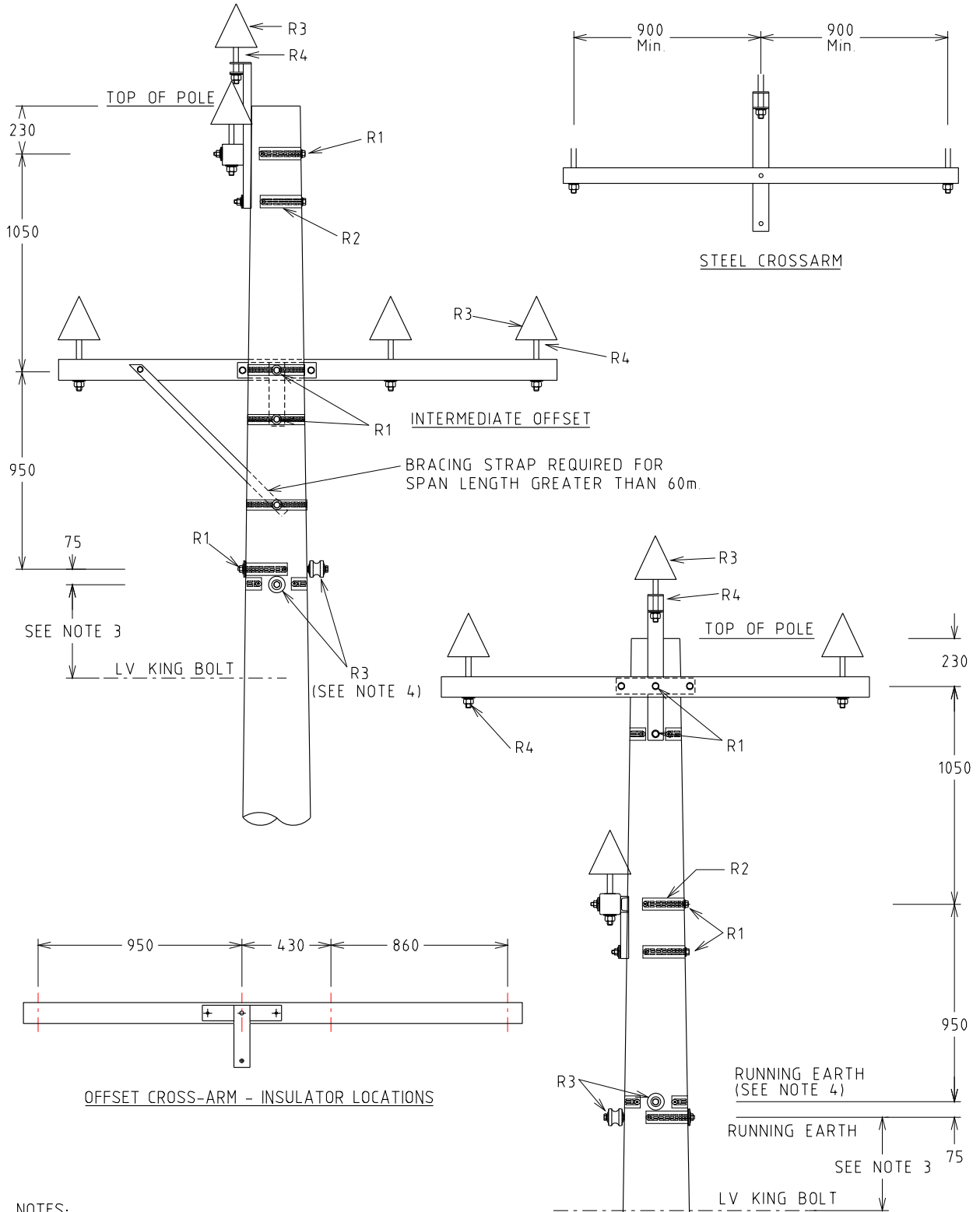
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD			
F	10.11.25	RE ATTACHMENT LOCATION UPDATED. R3 & R5 UPDATED	KT	VAS	CO	TITLE	DRAWN: JRR	DATE: 10-03-2014	DRG. No.	
E	25.09.19	DRAWING NUMBER AND TEE-OFF DISTANCE CHANGED	NN	REE	GS	3 PHASE INTERMEDIATE SINGLE PHASE TEE-OFF WITH/WITHOUT DROPOUT FUSE	ORIGINATED:	SCALE: NTS	H02-1	
D	15.01.16	STAY & DOF ADDED AND TITLE REVISED	FK	ME	GS		CHECKED: REE	APPROVED:		
C	12.01.15	FORMAT CHANGED, RUNNING EARTH AND NOTES REVISED	JC	REE	GS		GRANT STACY			
B	09.10.12	ORIGINAL ISSUE								
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.					



**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18Ø U.O.N.
3. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600m.
4. USE RUNNING EARTH INTERMEDIATE ANGLE, IF DEVIATION IS >2°.
5. USE CROSSARM STRAP (CB0485) IF DEVIATION IS >10°.
6. FOR TWO PHASE CONSTRUCTION, POSITION CONDUCTORS ON EITHER END OF CROSSARM.
7. TAPS NEED TO MAINTAIN 400 SEPERATION TO RUNNING EARTH OR POLE.

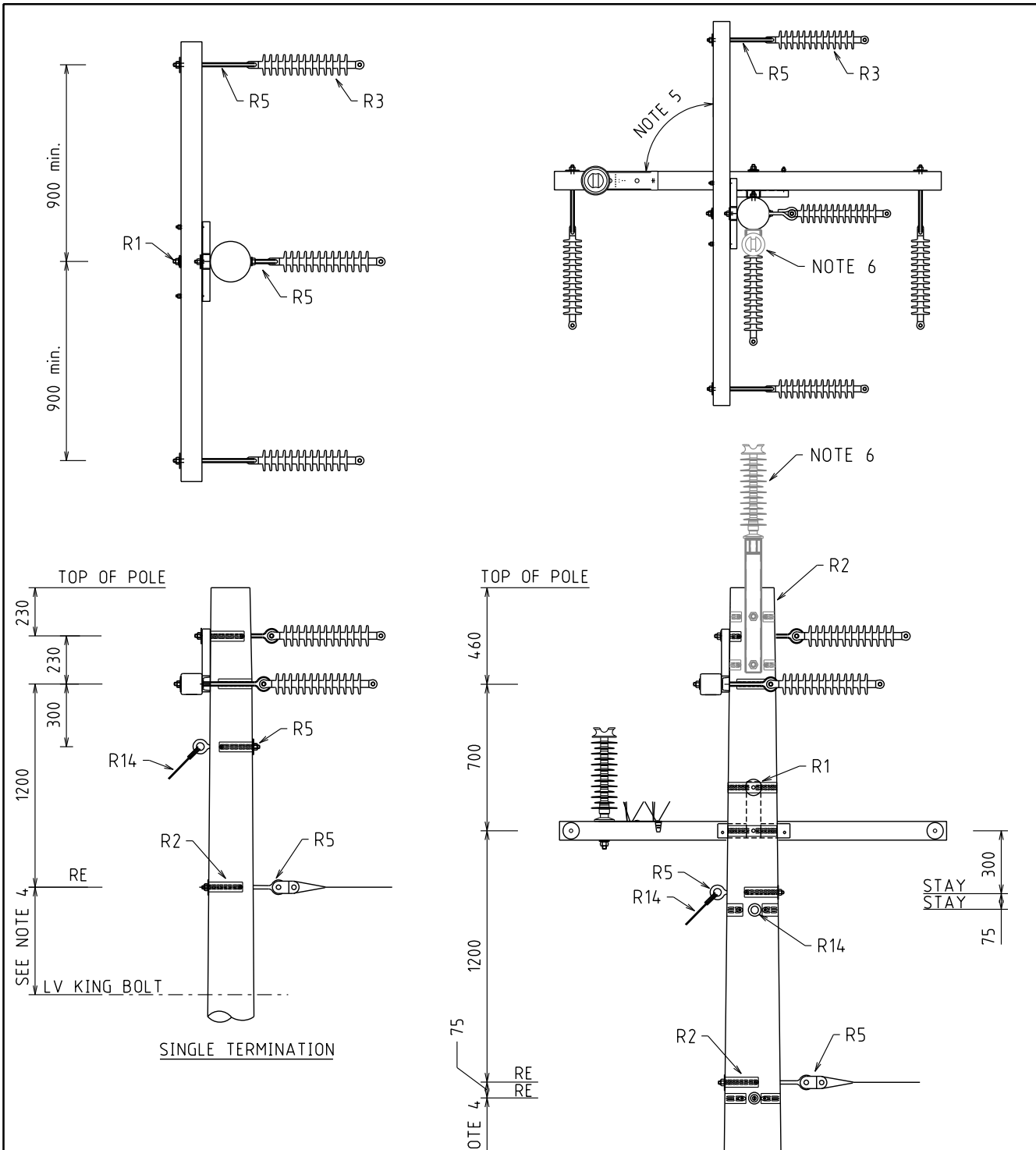
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD					
				TITLE <b>3 PHASE INTERMEDIATE SINGLE PHASE TEE-OFF WITH/ WITHOUT DOF ALTERNATIVE MAIN RE</b>								
				DRAWN: JRR		DATE: 11-09-2019		DRG. No.				
				ORIGINATED: NN		SCALE: NTS		<b>H02-2</b>				
				CHECKED: REE		APPROVED: GRANT STACY		REV. B		SHT. 1/1		
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.							
B	10.11.25	RE ATTACHMENT LOCATION UPDATED. R3 & R5 UPDATED	KT	VAS	CO							
A	25.09.19	ORIGINAL ISSUE	NN	CO	GS							



- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. ALL HOLES 180 U.O.N.
  3. REFER TO DWG. H01-1 NOTES FOR CLEARANCES BETWEEN RE & LV.
  4. USE RUNNING EARTH INTERMEDIATE ANGLE, IF DEVIATION IS >2°.

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD			
F	16.01.16	NOTE 4 ADDED		FK	ME	GS	DRAWN: JRR		DATE: 18-03-2014	DRG. No.
E	15.09.14	NOTE 3 REVISED				GS	ORIGINATED:		SCALE: NTS	H03
D	13.08.14	BRACING STRAP NOTE REVISED				GS	CHECKED: REE			
C	09.07.14	FORMAT CHANGED AND NOTE REVISED				GS	APPROVED: GRANT STACY		REV. F	SHT.
B	03.07.13	ORIGINAL ISSUE								
REV	DATE	DESCRIPTION		ORGD.	CHKD.	APRD.				

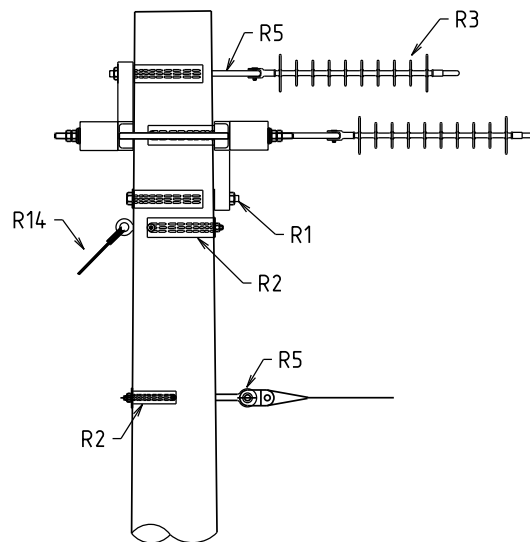
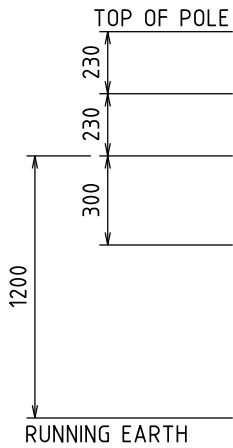
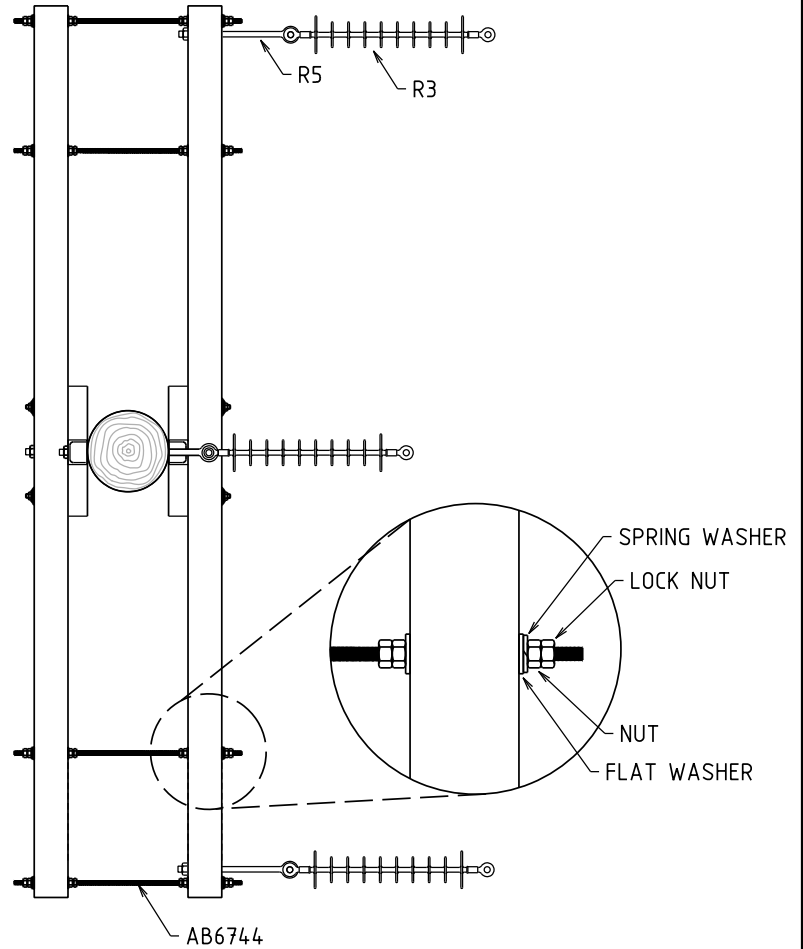
4 WAY INTERMEDIATE



**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18Ø U.N.O.
3. MAXIMUM DISTANCE BETWEEN DOWNEARTHS = 600mm
4. REFER TO DWG. H01-1 NOTES FOR LV CLEARANCES.  
IF NO R/E, 250.
5. RESTRICTED TO ANGLES >60° LINE DEVIATION, PROVIDED STAY CONFIGURATIONS ARE SATISFACTORY.
6. WHERE 400mm CLEARANCES TO THE CROSSARM/POLE CANNOT BE ACHIEVED, CARRY OVER INSULATORS TO BE USED (ON CROSSARM.)

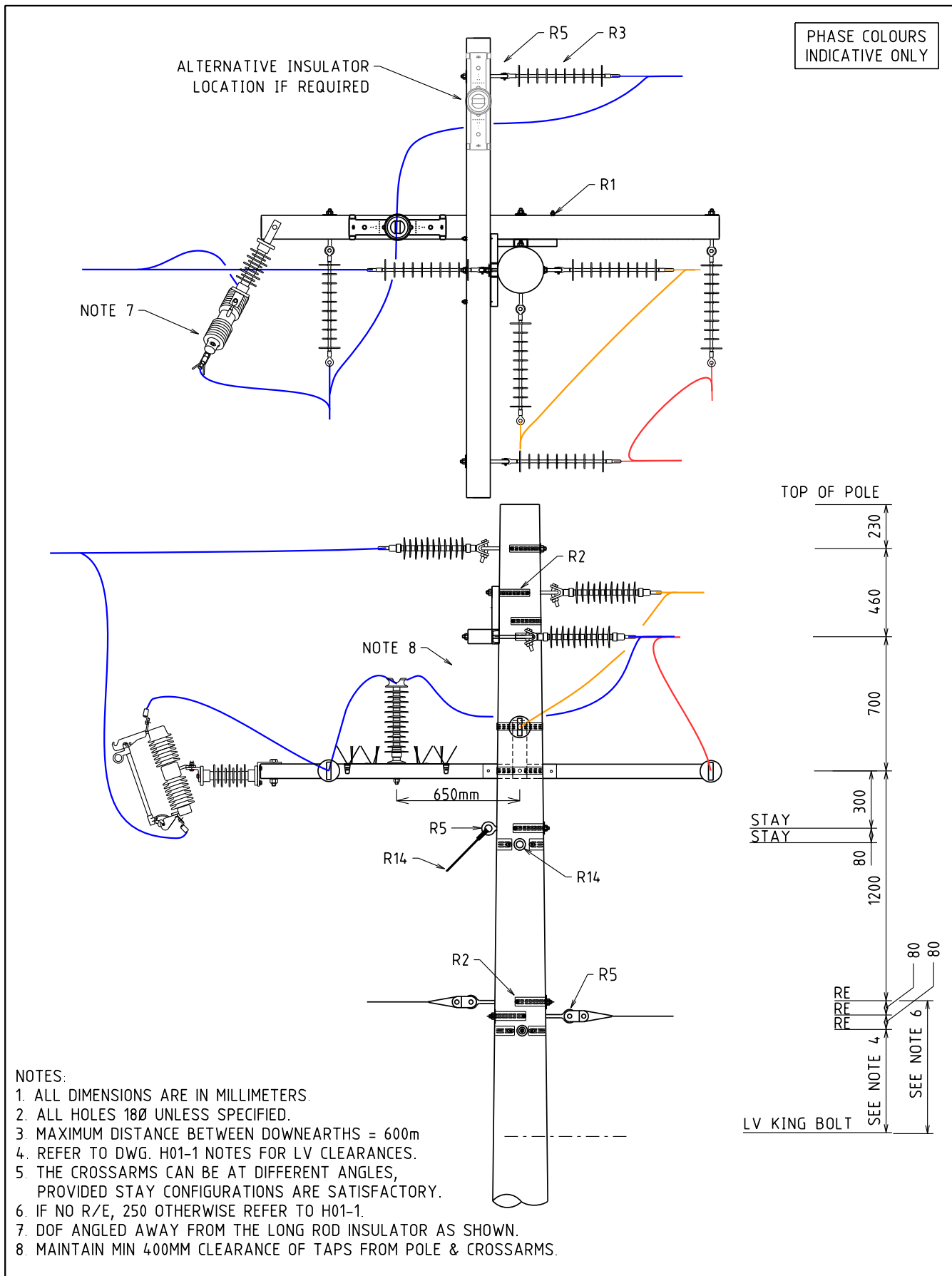
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD			
J	11.11.25	RE ATTACHMENT LOCATION UPDATED. R3 & R5 UPDATED	VAS	KT	CO	TITLE				
I	26.03.21	DISTANCE BETWEEN CROSS-ARMS INCREASED TO 700	NN	KT	GS	<b>HORIZONTAL TERMINATION</b>				
H	24.09.19	DISTANCE BETWEEN CROSSARMS IN DOUBLE TER. REVISED	NN		GS					
G	19.12.17	NOTES REVISED	JC	REE	GS					
F	09.03.17	DWG. No. CHANGED AND LV ATTACHMENTS CLARIFIED	CO	DVT	GS					
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.	APPROVED: GRANT STACY		DRG. No. H04-1	REV. J	SHT. 1/1



**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18 $\emptyset$  U.N.O.
3. MAXIMUM DISTANCE BETWEEN DOWNEARTHS = 600m
4. THE CROSSARMS CAN BE AT DIFFERENT ANGLES, PROVIDED STAY CONFIGURATIONS ARE SATISFACTORY.

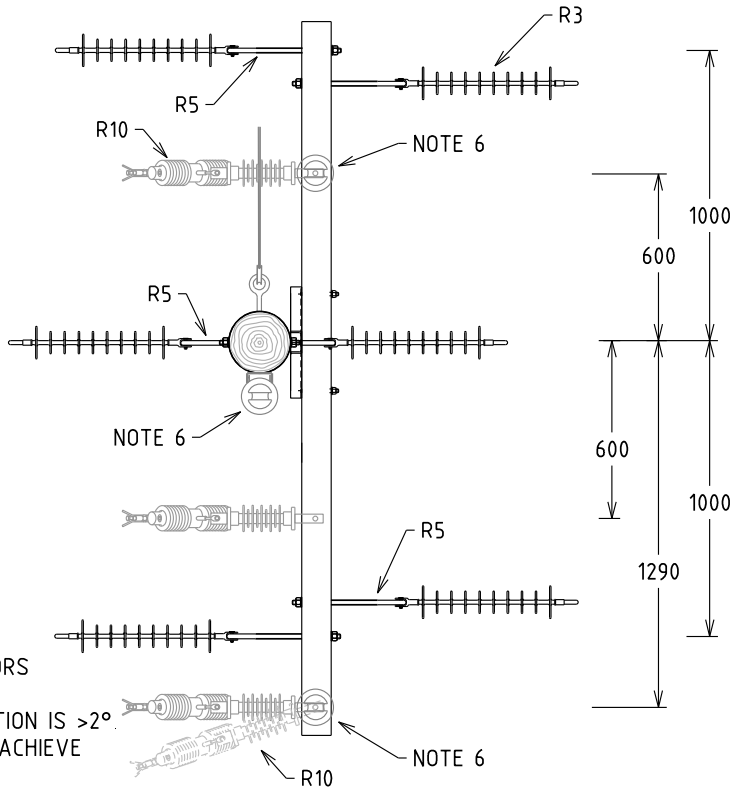
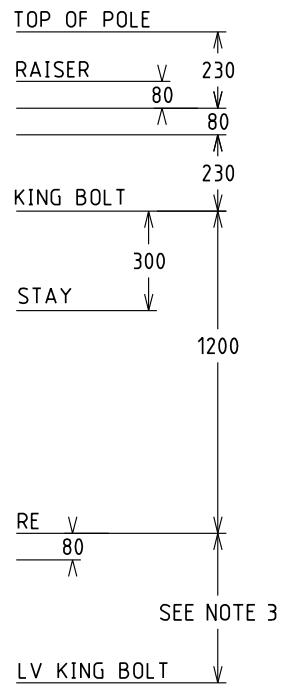
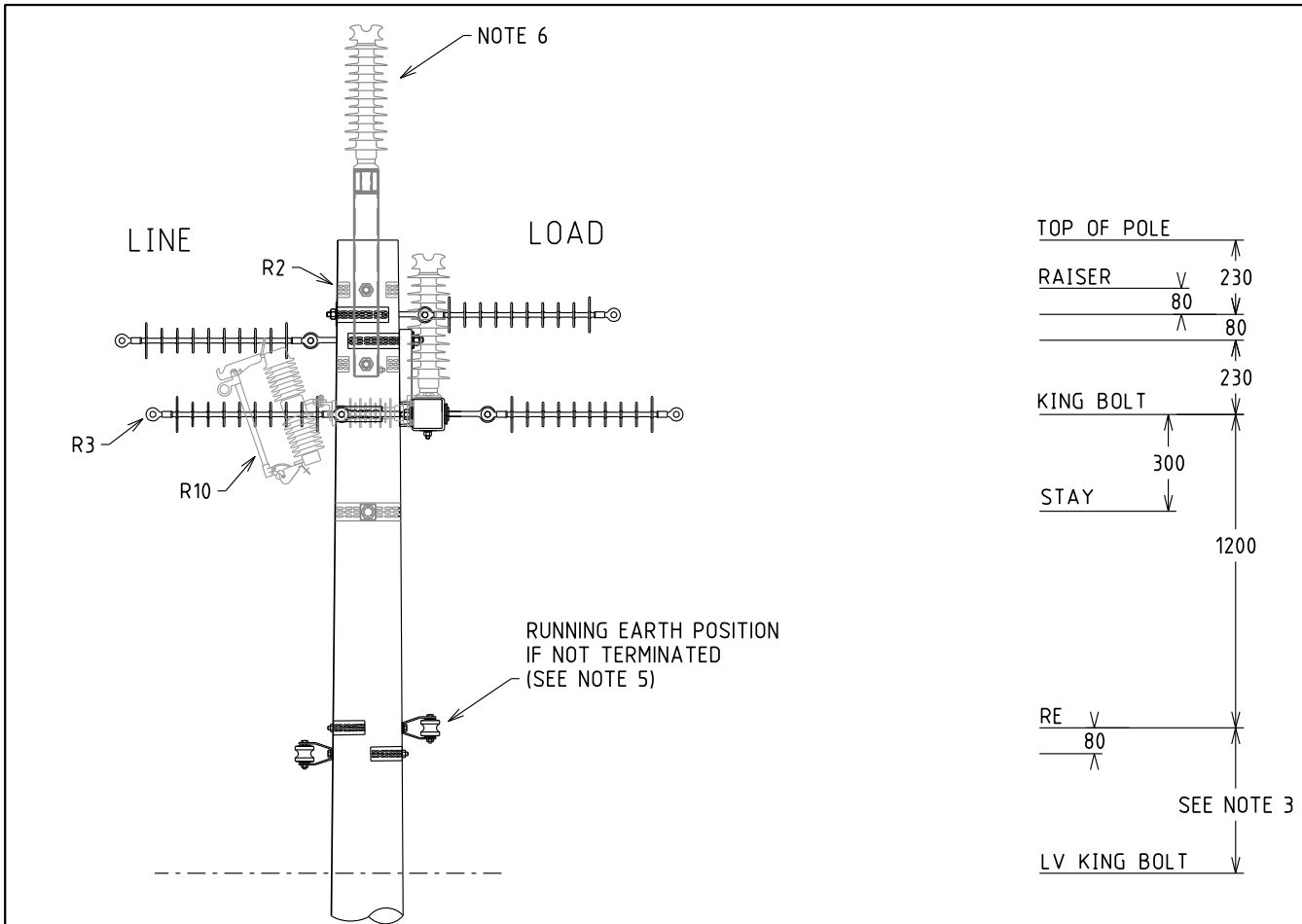
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD			
				TITLE			DRAWN: JRR		DATE: 03-03-2017	
				HORIZONTAL TERMINATION ANTI SWAN CROSS-ARM			ORIGINATED: CO		SCALE: NTS	
							CHECKED: DVT		H04-2	
							APPROVED: GRANT STACY		REV. D SH. 1/1	
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.					
D	06.11.25	RE ATTACHMENT LOCATION UPDATED	KT	VAS	CO					
C	21.05.25	ADDED STOCK CODES AB6744	VAS	NMc	CO					
B	01.06.18	MORE DETAILS ADDED & DIMENSIONS FIXED	NMc	CO	GS					
A	09.03.17	ORIGINAL ISSUE	CO	DVT	GS					



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. ALL HOLES 18Ø UNLESS SPECIFIED.
3. MAXIMUM DISTANCE BETWEEN DOWNEARTHS = 600m
4. REFER TO DWG. H01-1 NOTES FOR LV CLEARANCES.
5. THE CROSSARMS CAN BE AT DIFFERENT ANGLES, PROVIDED STAY CONFIGURATIONS ARE SATISFACTORY.
6. IF NO R/E, 250 OTHERWISE REFER TO H01-1.
7. DOF ANGLED AWAY FROM THE LONG ROD INSULATOR AS SHOWN.
8. MAINTAIN MIN 400MM CLEARANCE OF TAPS FROM POLE & CROSSARMS.

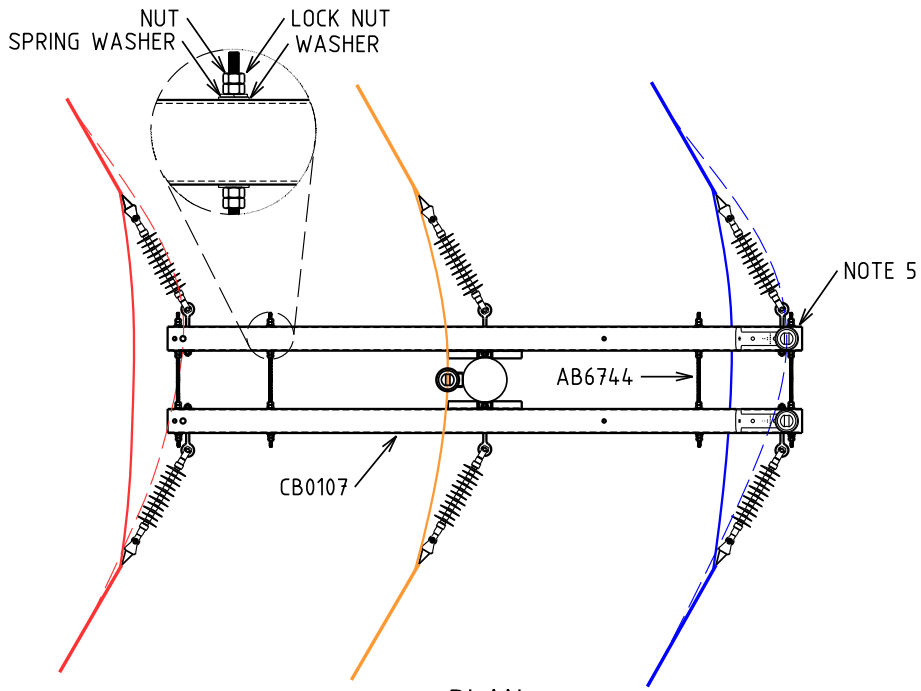
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD					
				TITLE			DRAWN: JRR		DATE: 19-09-2019		DRG No.	
				DOUBLE TERMINATION AND 1 PH T-OFF WITH DOF			ORIGINATED: NN		SCALE: NTS		H04-3	
							CHECKED: REE		APPROVED:			
							APPROVED: GRANT STACY				SHT. 1/1	
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.							
C	21.11.25	INSULATOR AND DOF RELOCATED. NOTES 7 & 8 ADDED	VAS	NMc	CO							
B	26.03.21	DISTANCE BETWEEN CROSS-ARMS INCREASED TO 700	NN	KT	GS							
A	24.09.19	ORIGINAL ISSUE	NN	REE	GS							



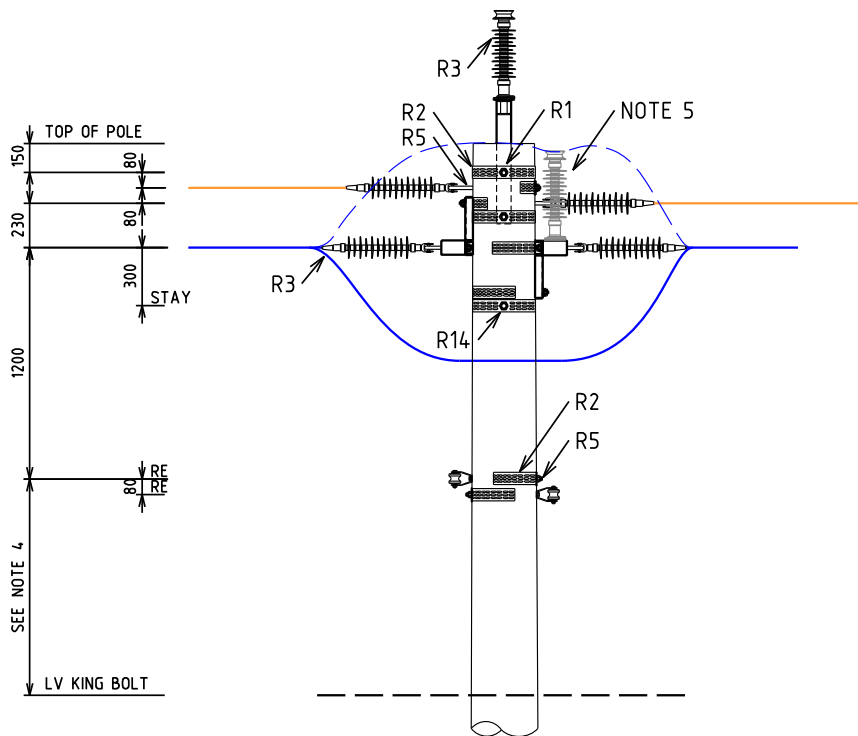
**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18Ø U.O.N.
3. REFER TO DWG. H01-1 NOTES FOR CLEARANCES BETWEEN RE & LV.
4. FOR TWO PHASE CONSTRUCTION, POSITION CONDUCTORS ON EITHER END OF CROSSARM.
5. USE RUNNING EARTH INTERMEDIATE ANGLE, IF DEVIATION IS >2°.
6. STAND-OFF INSULATOR NOT REQUIRED IF TAPS CAN ACHIEVE 400mm CLEARANCES OR IF DOFS ARE USED.

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower	
G	09.07.25	CROSS-ARM ORIENTATION CHANGED		VAS	NMc	CO	TITLE		DRAWN: JRR DATE: 18-03-2014 DRG. No.	
F	14.08.18	CROSS-ARM ORIENTATION CHANGED		CO	NMc	GS	STRAIN ANGLE WITH OR WITHOUT DROP-OUT FUSE		H05-1	
E	02.02.17	DRAWING NUMBER CHANGED		DVT	CO	GS				
D	15.01.16	NOTE 5 AND POST INSULATOR ADDED		FK	ME	GS	CHECKED: REE		REV. G	
C	24.09.14	NOTE 3 REVISED AND NOTE 4 ADDED				GS	APPROVED: GRANT STACY		SHT. 1/1	
REV.	DATE	DESCRIPTION		DRGD.	CHKD.	APRD.				



PLAN

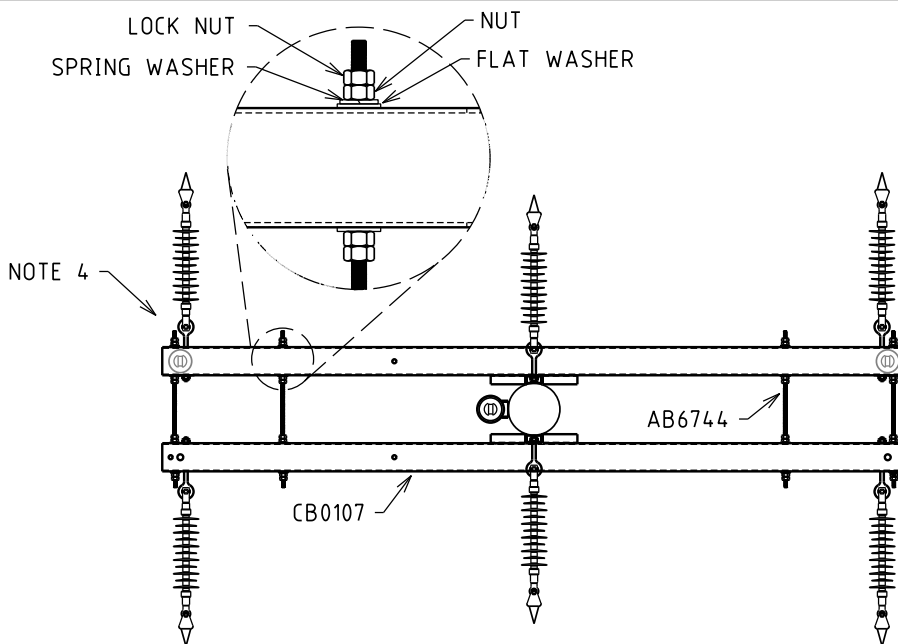


ELEVATION

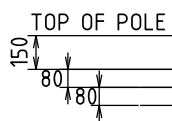
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18Ø U.O.N.
3. FOR TWO PHASE CONSTRUCTION, POSITION CONDUCTORS ON EITHER END OF CROSSARM.
4. REFER TO H01-1 NOTES FOR CLEARANCES BETWEEN RE & LV.
5. POST INSULATOR NOT REQUIRED IF TAPS UNDER CROSS ARM (PREFERRED).  
ALTERNATIVE LOCATION IF 400mm CLEARANCE CANNOT BE ACHIEVED TO POLE, CROSS ARM & STAY WIRE.
6. PHASE COLOURS INDICATIVE ONLY.

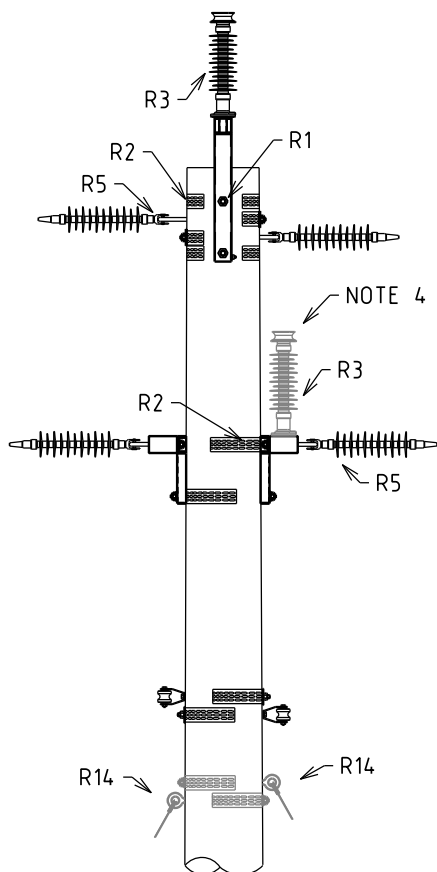
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower	
E	10.11.25	RE ATTACHMENT LOCATION UPDATED	KT	VAS	CO	TITLE	DRAWN: JRR	06-10-2016	ORG. No.	
D	03.06.25	RAISER BRACKET ADDED AND RE LOCATION CHANGED.	VAS	NMc	CO	STRAIN ANGLE UPTO 30° DEVIATION DOUBLE ANTI-SWAN CROSS-ARM	CHECKED: GVS	SCALE: NTS	H05-2	
C	02.05.17	STAND-OFF INSULATOR LOCATION CHANGED.	JC	REE	GS		APPROVED: GRANT STACY	REV. E		SHT. 1/1
B	03.03.17	DRAWING NUMBER CHANGED	DVT	REE	GS					
A	07.10.16	ORIGINAL ISSUE	DVT	GS	GS					
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.					



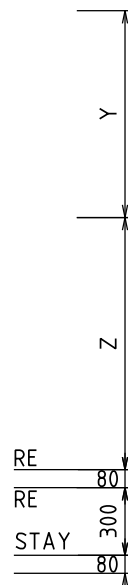
PLAN



LONGER BAY



SHORTER BAY



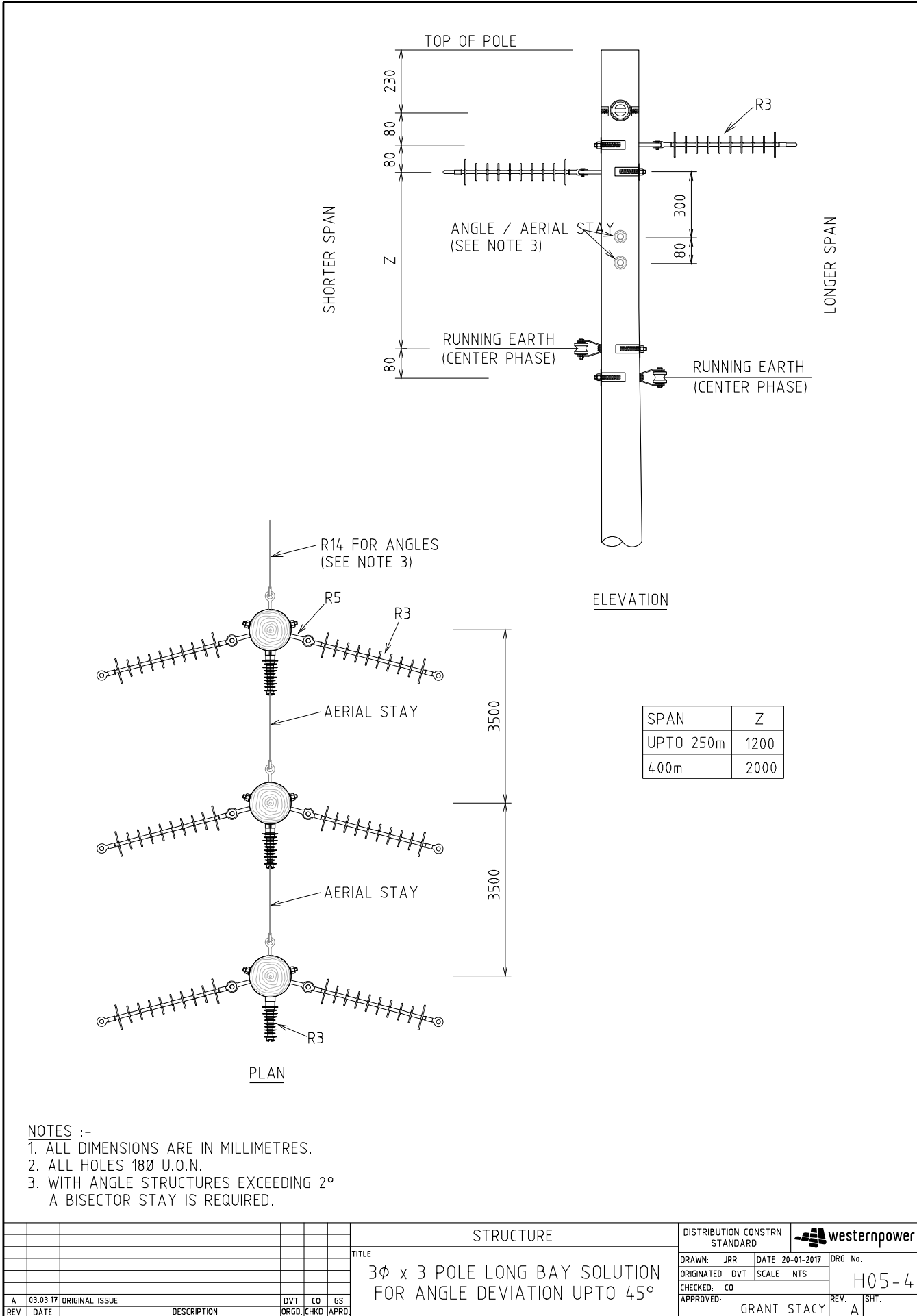
SPAN	Y	Z
UPTO 250m	1000	1200
400m	2000	2000

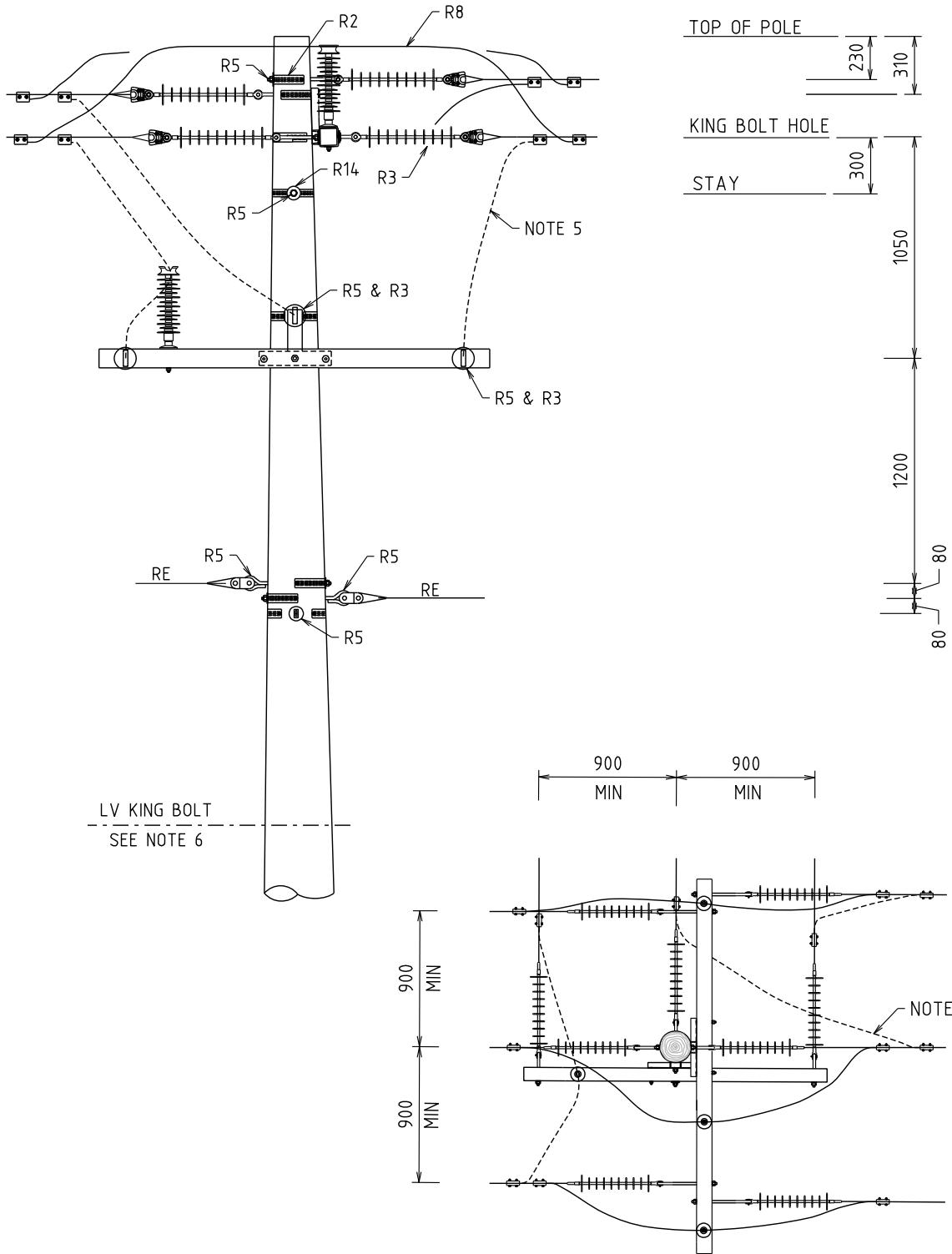
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18Ø U.O.N.
3. FOR TWO PHASE CONSTRUCTION, POSITION CONDUCTORS ON EITHER END OF CROSSARM.
4. STAND-OFF INSULATOR NOT REQUIRED IF TAPS CAN ACHIEVE 400mm CLEARANCE TO STRUCTURE.

ELEVATION

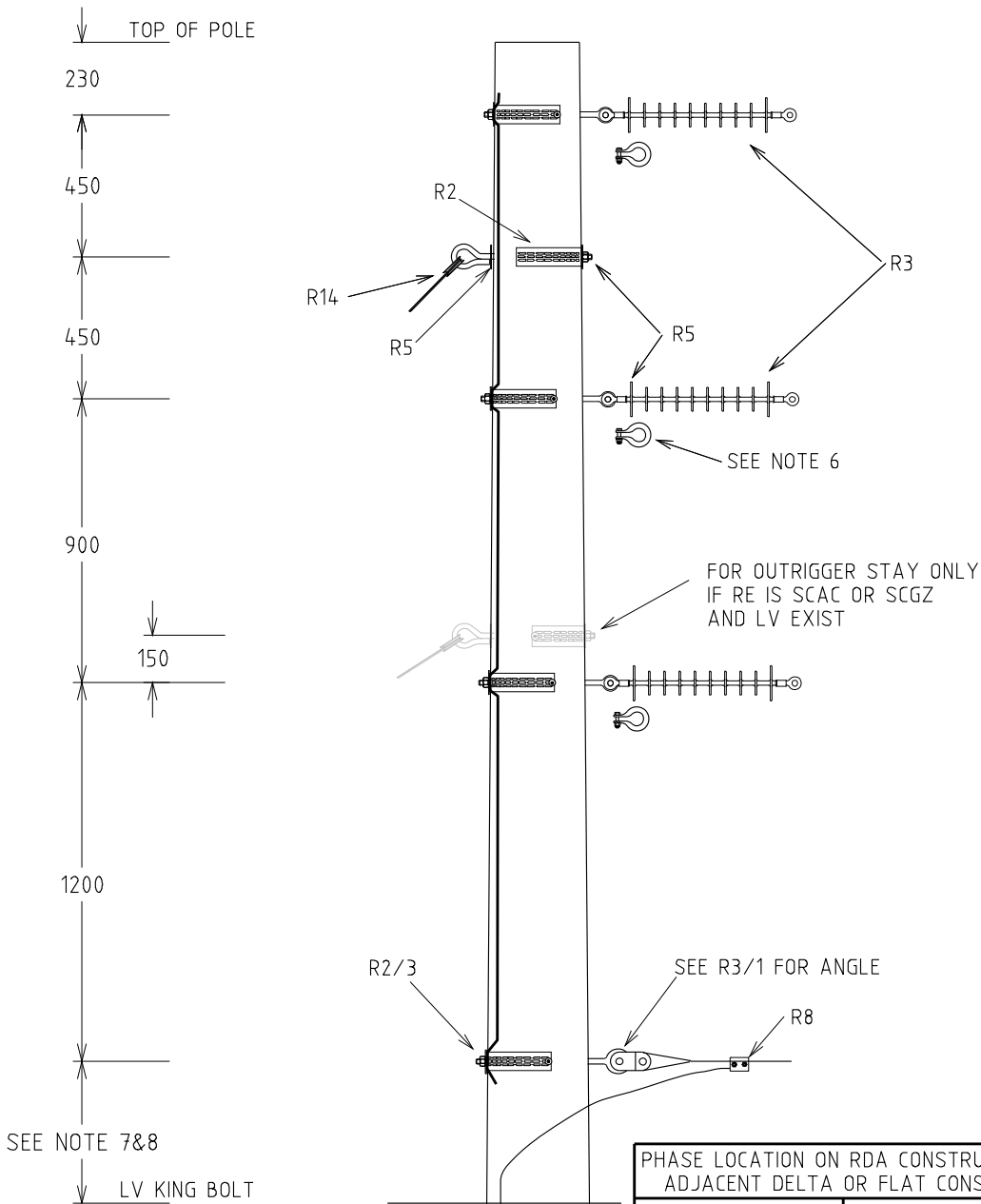
				STRUCTURE		DISTRIBUTION CONSTR. STANDARD		westernpower	
				TITL		DRAWN: JRR 20-01-2017		ORG. No.	
				STR		ORIGINATED: DVT SCALE: NTS		H05-3	
				DESC		CHECKED: CO		REV. C	
				MATERIAL		APPROVED: GRANT STACY		SHT. 1/1	
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.				
C	03.06.25	RAISER BRACKET AND DETAIL ON AB6744 ADDED.	VAS	NMc	CO				
B	03.03.17	DRAWING NUMBER CHANGED	JC	REE	GS				
A	03.03.17	ORIGINAL ISSUE	DVT	CO	GS				





- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. ALL HOLES 18Ø U.O.N.
  3. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600m.
  4. TAP NEED TO MAINTAIN 400 MIN. CLEARANCES.
  5. TAPPINGS SHOWN ARE INDICATIVE ONLY. (NETWORK DEPENDENT).
  6. REFER TO DWG. H01-1 NOTES FOR LV CLEARANCES.

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD					
				TITLE			DRAWN: JRR		DATE: 06-08-2024		ORG. No.	
				3PH IN-LINE STRAIN WITH TEE OFF			ORIGINATED: AS		SCALE: NTS		H05-5	
							CHECKED: NMc		APPROVED: CHRIS OMODEI			
A	24.10.24	ORIGINAL ISSUE		AS	NMc	CO						
REV.	DATE	DESCRIPTION		ORGD.	CHKD.	APRD.						

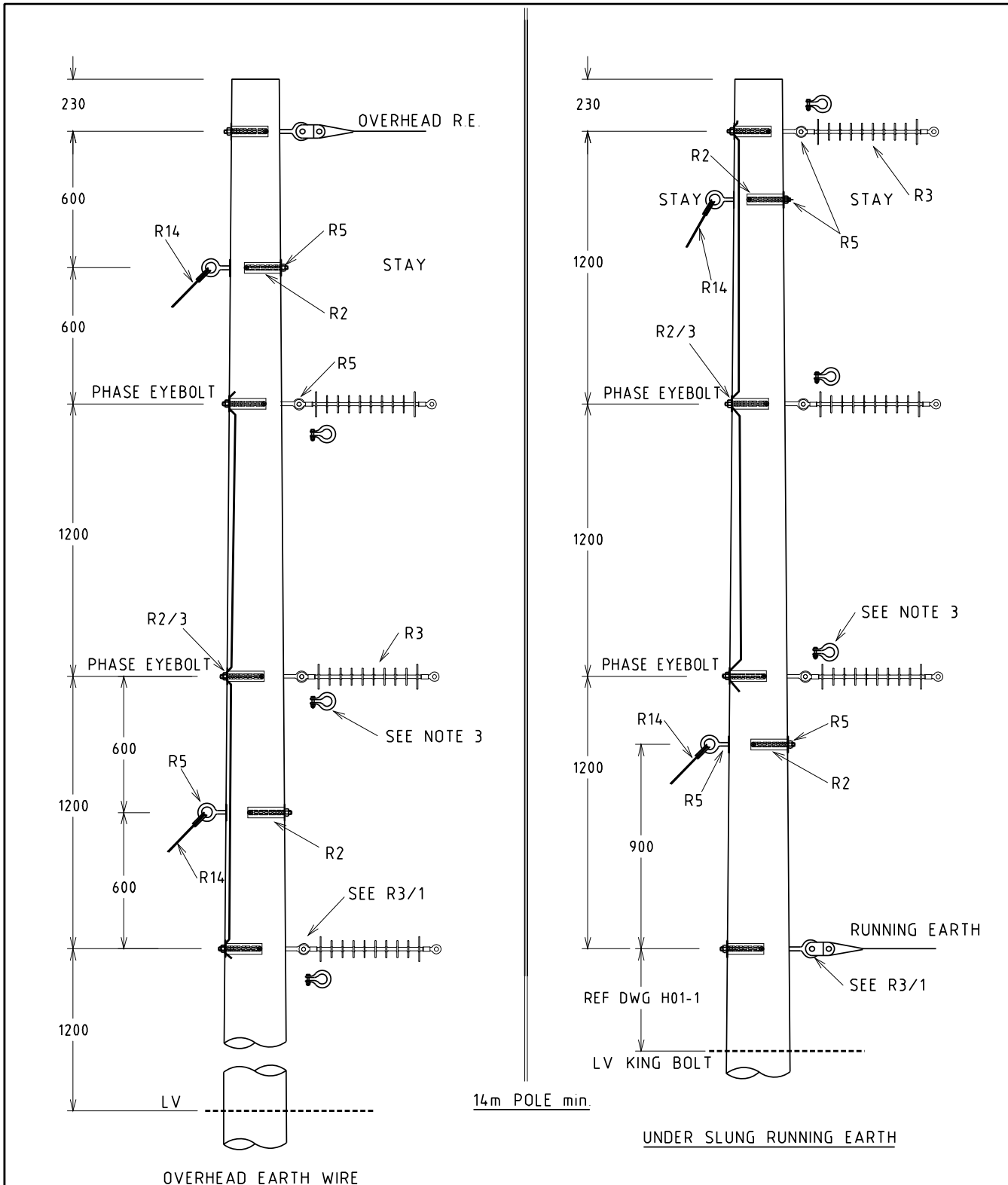


**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18DIA U.O.N.
3. FOR BAY LENGTHS LESS THAN 55M WITH R/E -12.5M POLE.
4. FOR BAY LENGTHS LESS THAN 80M WITHOUT R/E -12.5M POLE IF ALL OTHER GROUND CLEARANCES COMPLY.
5. FOR BAY LENGTHS GREATER THAN 80M ON A 12.5m POLE H7 CONDUCTOR SPACING APPLY AND ALL OTHER GROUND CLEARANCES COMPLY.
6. FOR RDA USE BOW SHACKLE - OS0055.
7. WHEN LV CONDUCTOR IS;
  - (a) LV BARE CONDUCTOR - 650 IF R/E IS SCAC OR SCGZ 1100 IF R/E IS AAAC.
  - (b) LV ABC 450 FOR ALL TYPES OF R/E CONDUCTOR
8. IF THERE IS NO RUNNING EARTH INSTALL LV AT R/E POSITION.

PHASE LOCATION ON RDA CONSTRUCTION FROM ADJACENT DELTA OR FLAT CONSTRUCTION	
RDA CONSTRUCTION	ADJACENT CONSTRUCTION
TOP PHASE	CENTRE PHASE
MIDDLE PHASE	OUTER PHASE
BOTTOM PHASE	INNER PHASE

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD			
				TITLE			DRAWN: JRR		DATE: 18-03-2014	
				RUNNING DISC ANGLE OR VERTICAL TERMINATION (900mm SPACING)			ORIGINATED: JRR		SCALE: NTS	
							CHECKED: REE		DRG. No. H06	
							APPROVED: GRANT STACY		REV. L	
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.			SHT.		

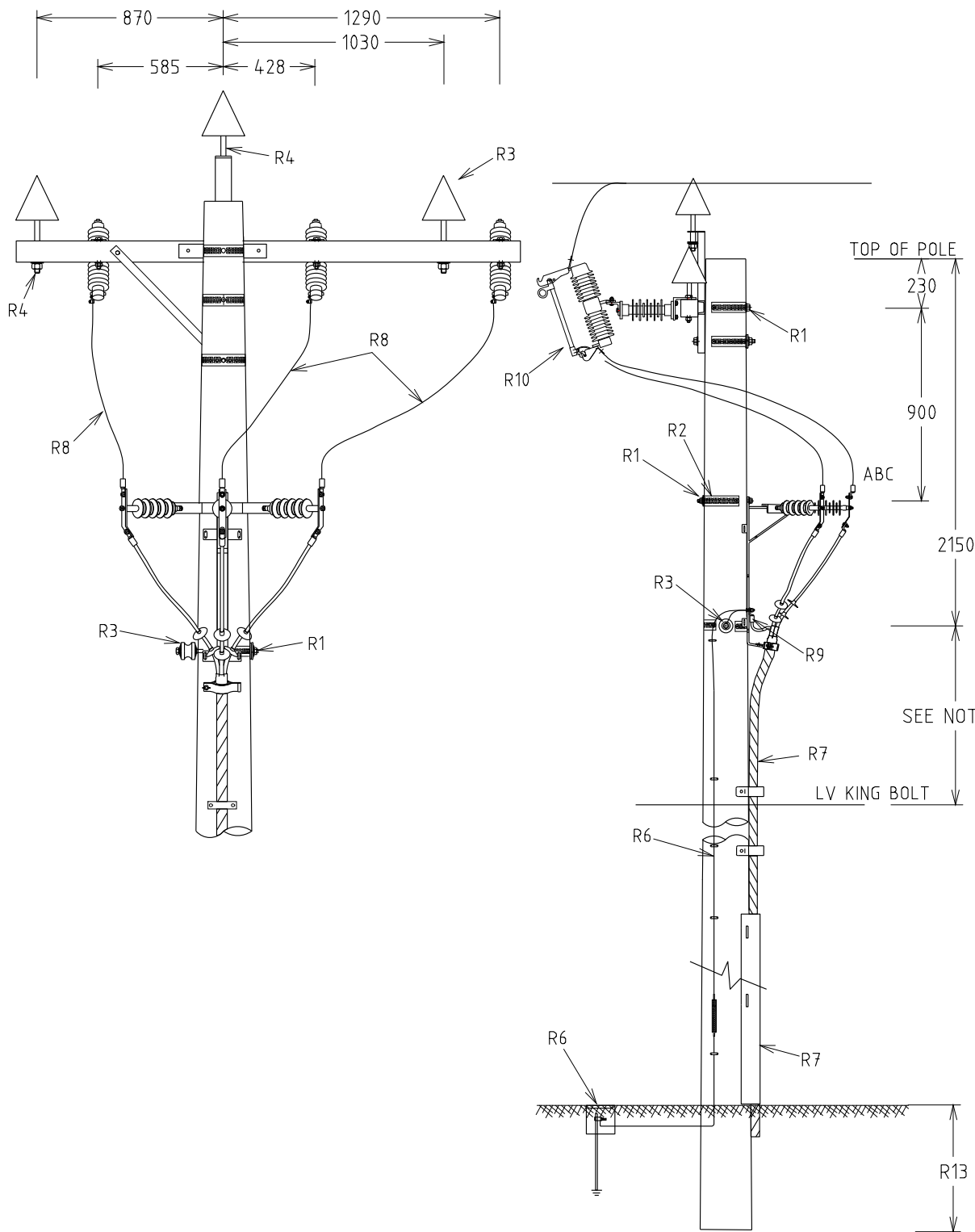


PHASE LOCATION ON RDA CONSTRUCTION FROM ADJACENT DELTA OR FLAT CONSTRUCTION	
RDA CONSTRUCTION	ADJACENT CONSTRUCTION
TOP PHASE	CENTRE PHASE
MIDDLE PHASE	OUTER PHASE
BOTTOM PHASE	INNER PHASE

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. ALL HOLES 18φ U.O.N.
  3. FOR RDA USE BOW SHACKLE.

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower			
				TITLE							H07	
				RUNNING DISC ANGLE OR VERTICAL TERMINATION (1200mm SPACING)							H07	
				DRAWN: JRR DATE: 18-03-2014 DRG. No.							H07	
				ORIGINATED: SCALE: NTS							H07	
				CHECKED: REE							H07	
				APPROVED: GRANT STACY							H07	
				REV. H							H07	
				SHT.							H07	



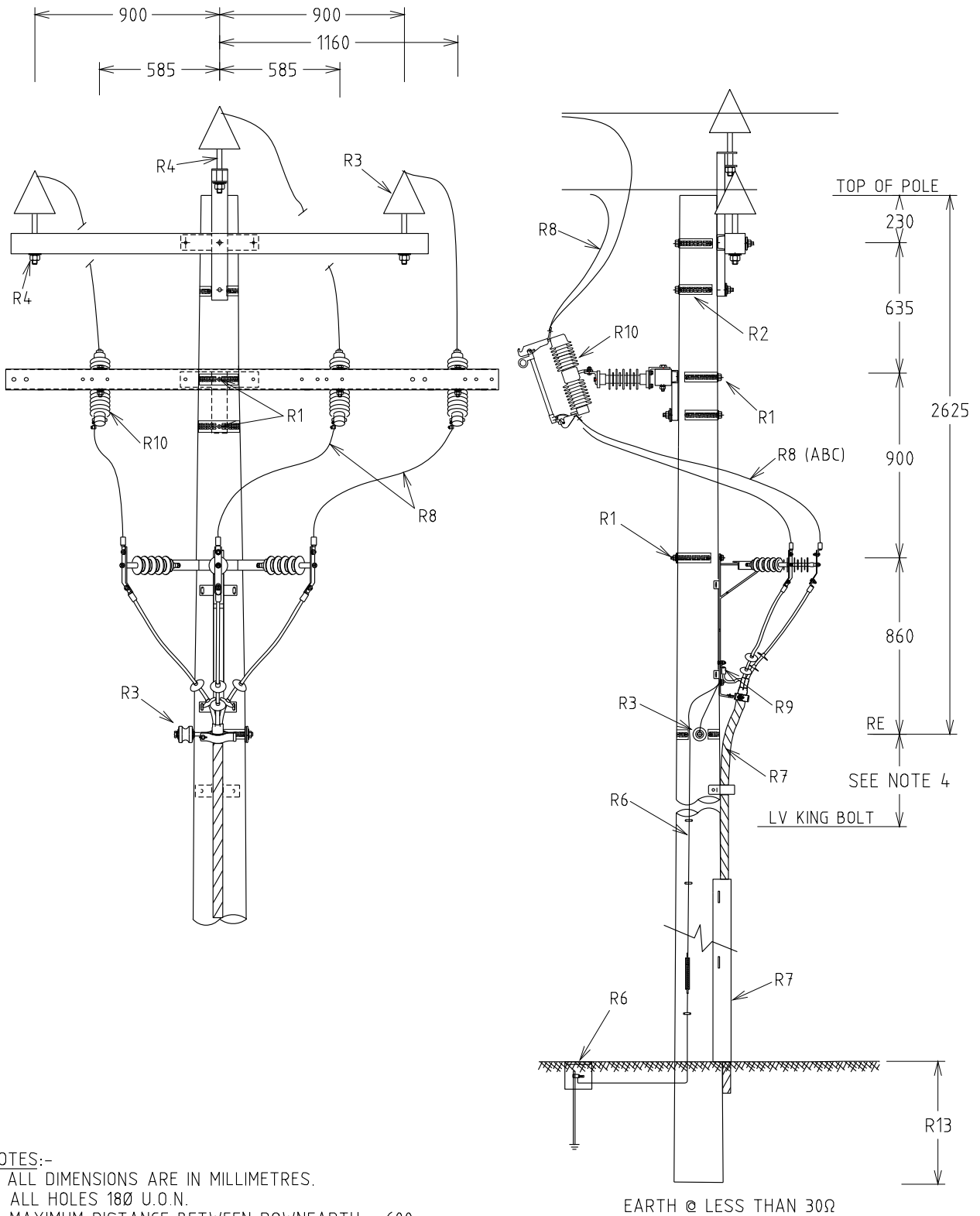


**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18Ø U.O.N.
3. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600m
4. (a) FOR OPEN AERIAL 650 IF R/E IS SCAC OR SCGZ  
1100 IF R/E IS AAAC
- (b) FOR LV ABC 450.

EARTH @ LESS THAN 30Ω

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower	
				TITLE			DRAWN: JRR		DATE: 18-03-2014 DRG. No.	
				INTERMEDIATE CABLE WITH DROPOUT FUSE			ORIGINATED: REE		SCALE: NTS	
							CHECKED: REE		H08-1	
							APPROVED: GRANT STACY		REV. C	
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.			SHT.		

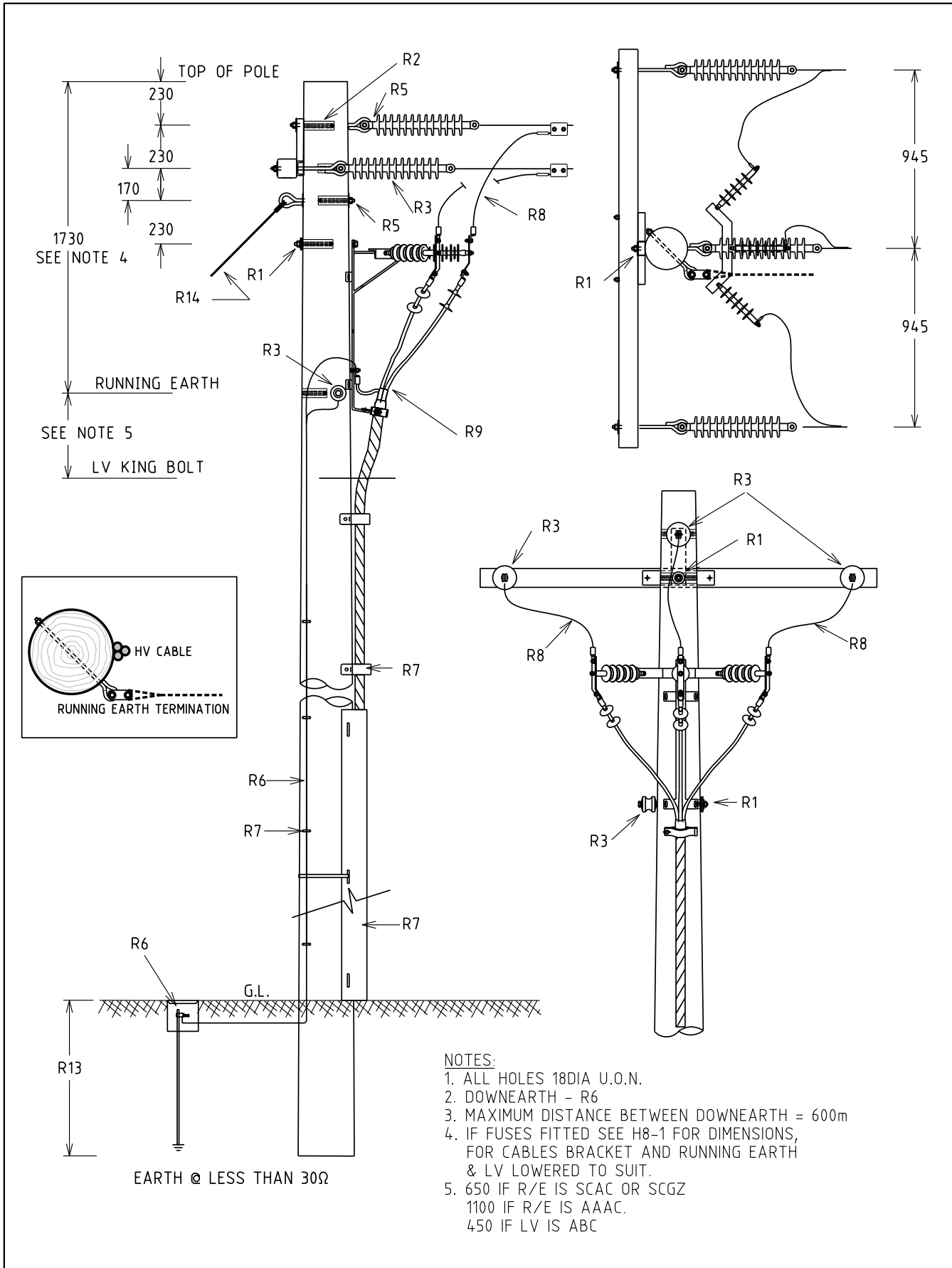


- NOTES:-
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. ALL HOLES 18Ø U.O.N.
  3. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600m
  4. (a) FOR OPEN AERIAL 650 IF R/E IS SCAC OR SCGZ  
1100 IF R/E IS AAAC  
(b) FOR LV ABC 450.

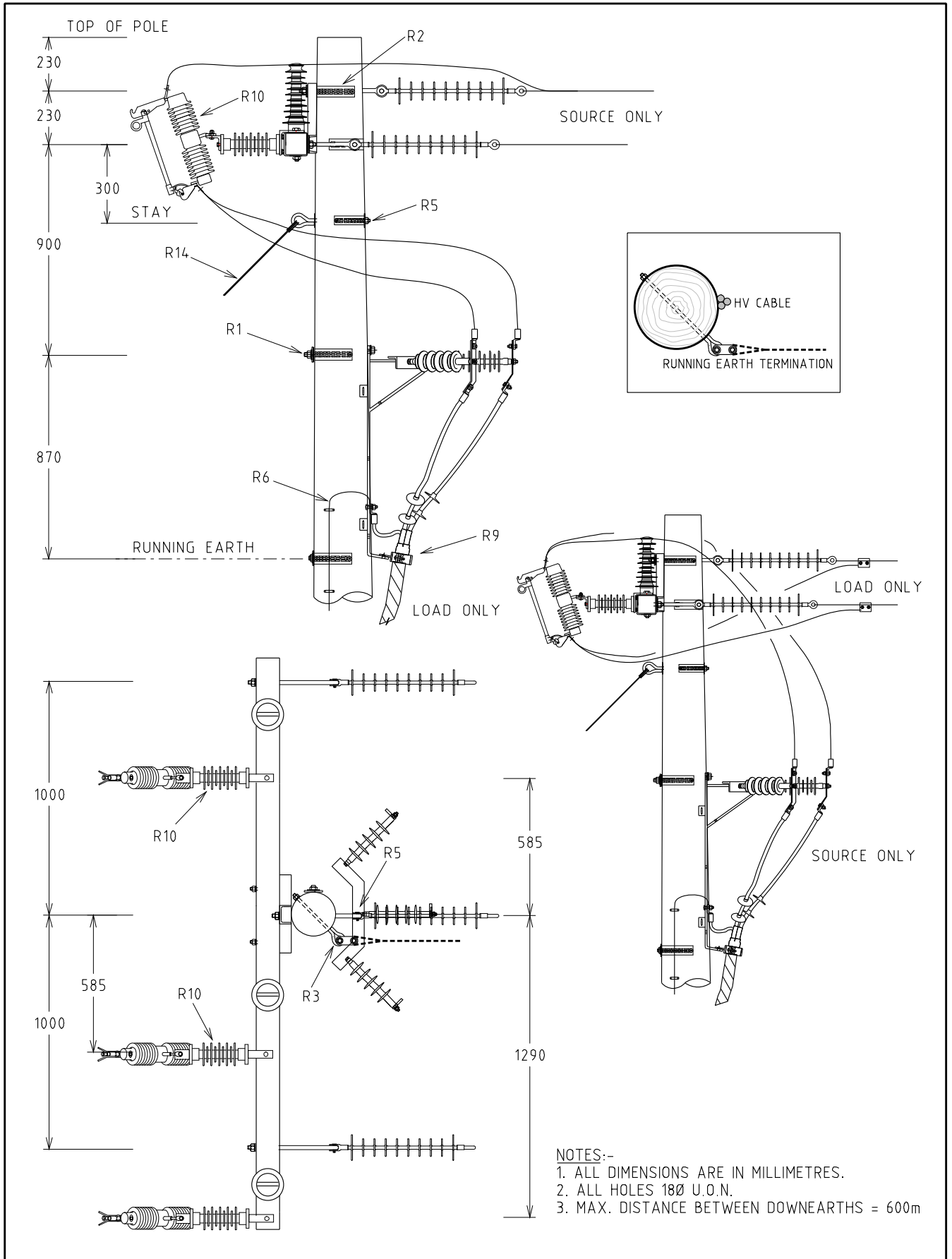
12.5m 6kN POLE

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower	
				TITTLE			DRAWN: JRR		DATE: 18-03-2014 DRG. No.	
				INTERMEDIATE CABLE			ORIGINATED:		SCALE: NTS	
				WITH DROPOUT FUSE			CHECKED: REE		H08-2	
				(ALTERNATE CROSSARM)			APPROVED:		REV. D	
							GRANT STACY		SHT.	
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.					
D	29.11.18	EARTHING SYSTEM AND NOTES REVISED	REE	NMc	GS					
C	15.09.14	NOTE 3 REVISED			GS					
B	09.07.14	FORMAT CHANGED AND NOTES REVISED			GS					

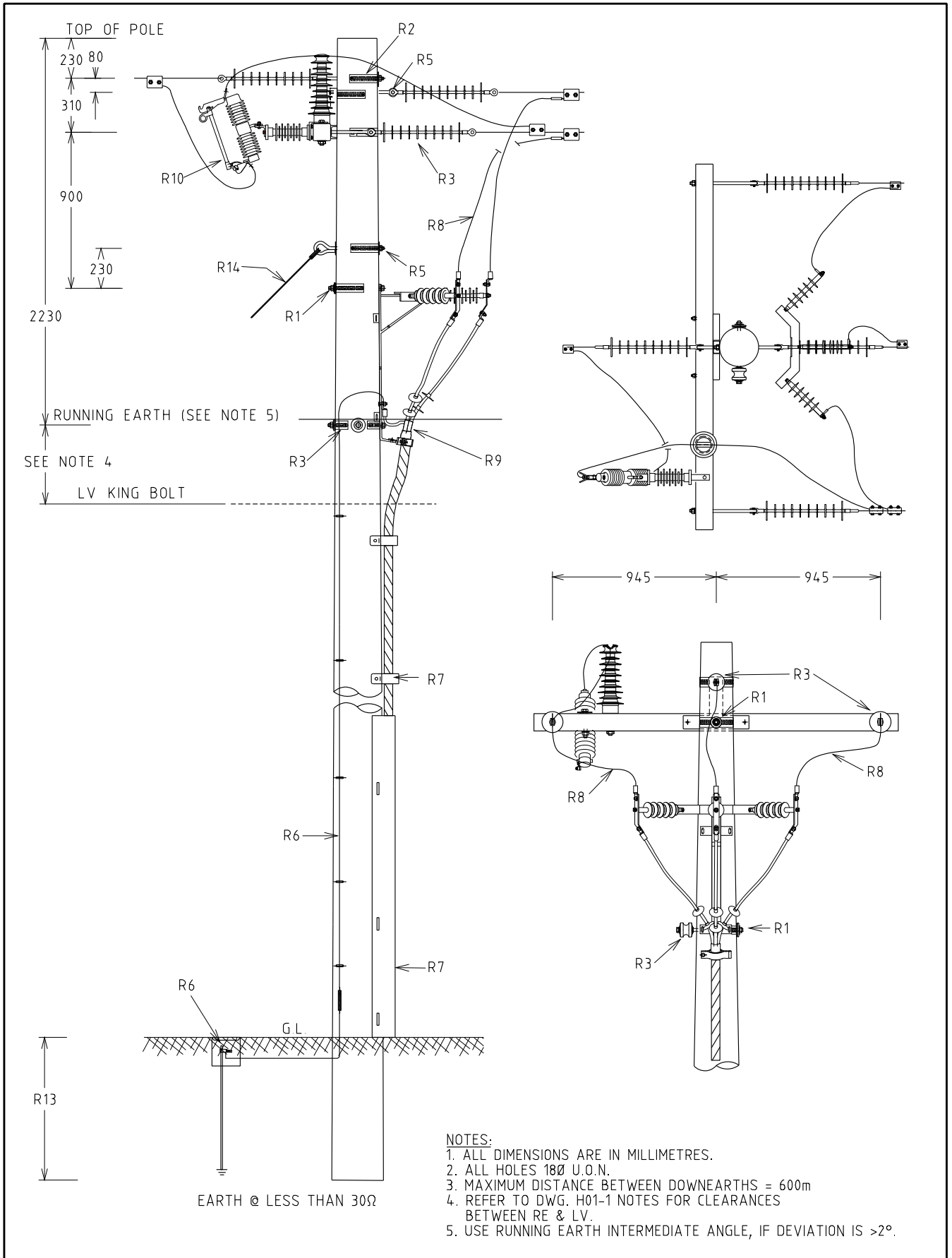




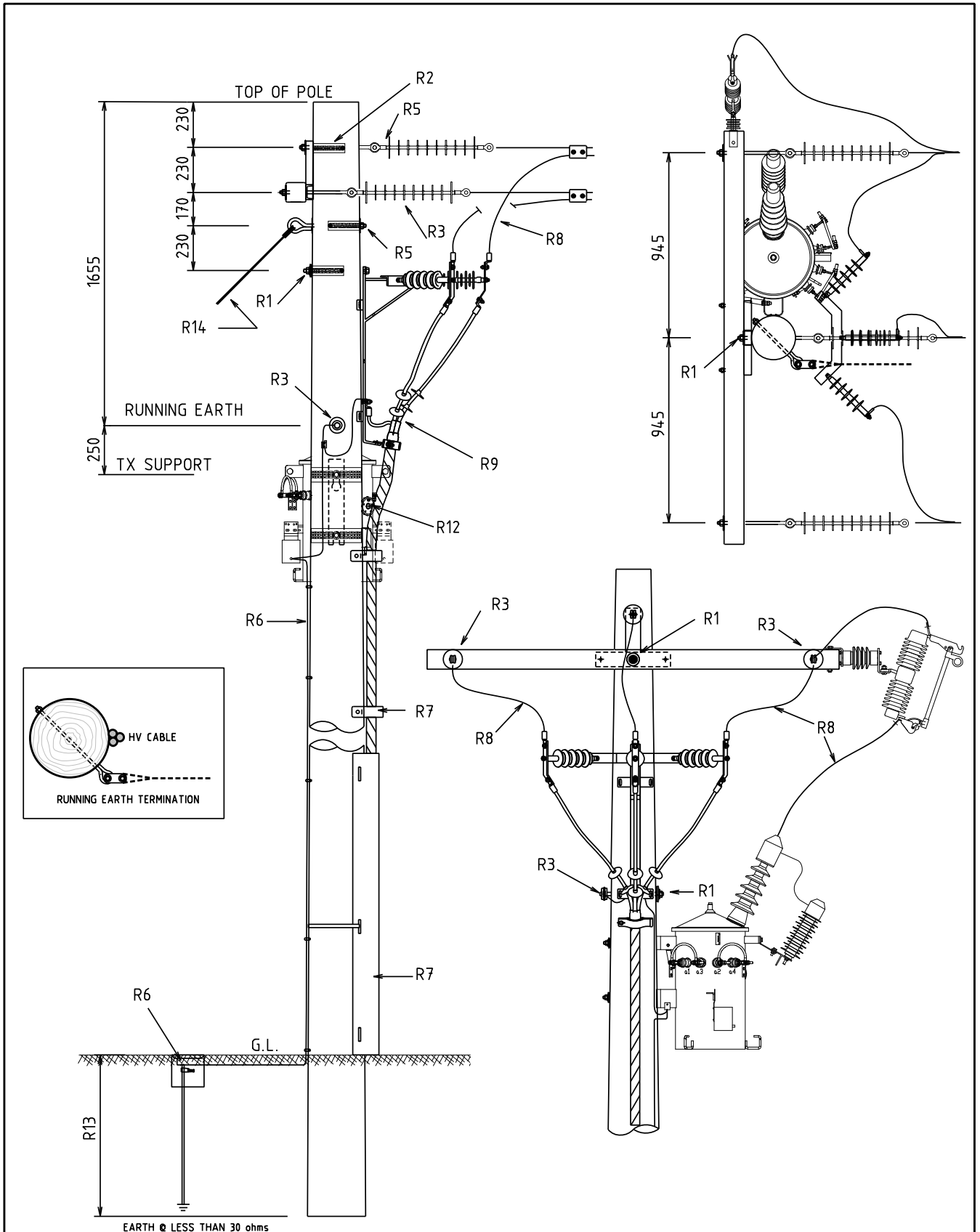
				STRUCTURE		DISTRIBUTION CONSTR. STANDARD			
				TITLE		DRAWN: JRR		DATE: 18-03-2014	
				TERMINATION CABLE WITH DROPOUT FUSES UPSTREAM		ORIGINATED:		SCALE: NTS	
						CHECKED: REE		H09-1	
						APPROVED: GRANT STACY			
						REV: G		SHT:	
R. No.	DATE	DESCRIPTION	ORGD.	CHED.	APRD.				



				STRUCTURE		DISTRIBUTION CONSTR. STANDARD		westernpower	
				TITLE		DRAWN: JRR DATE: 18-03-2014 DRG. No.		H09-2	
				TERMINATION & CABLE WITH DROPOUT FUSES		ORIGINATED: SCALE: NTS			
						CHECKED: REE		APPROVED: GRANT STACY	
						APPROVED:		REV. E SHT.	
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.				
E	05.10.18	NOTES REVISED AND MORE DETAILS ADDED	REE	NN	GS				
D	08.09.16	SOURCE AND LOAD INDICATED	FK	REE	ME				
C	15.01.16	STAY ADDED	FK	ME	GS				
B	19.11.13	ORIGINAL ISSUE							

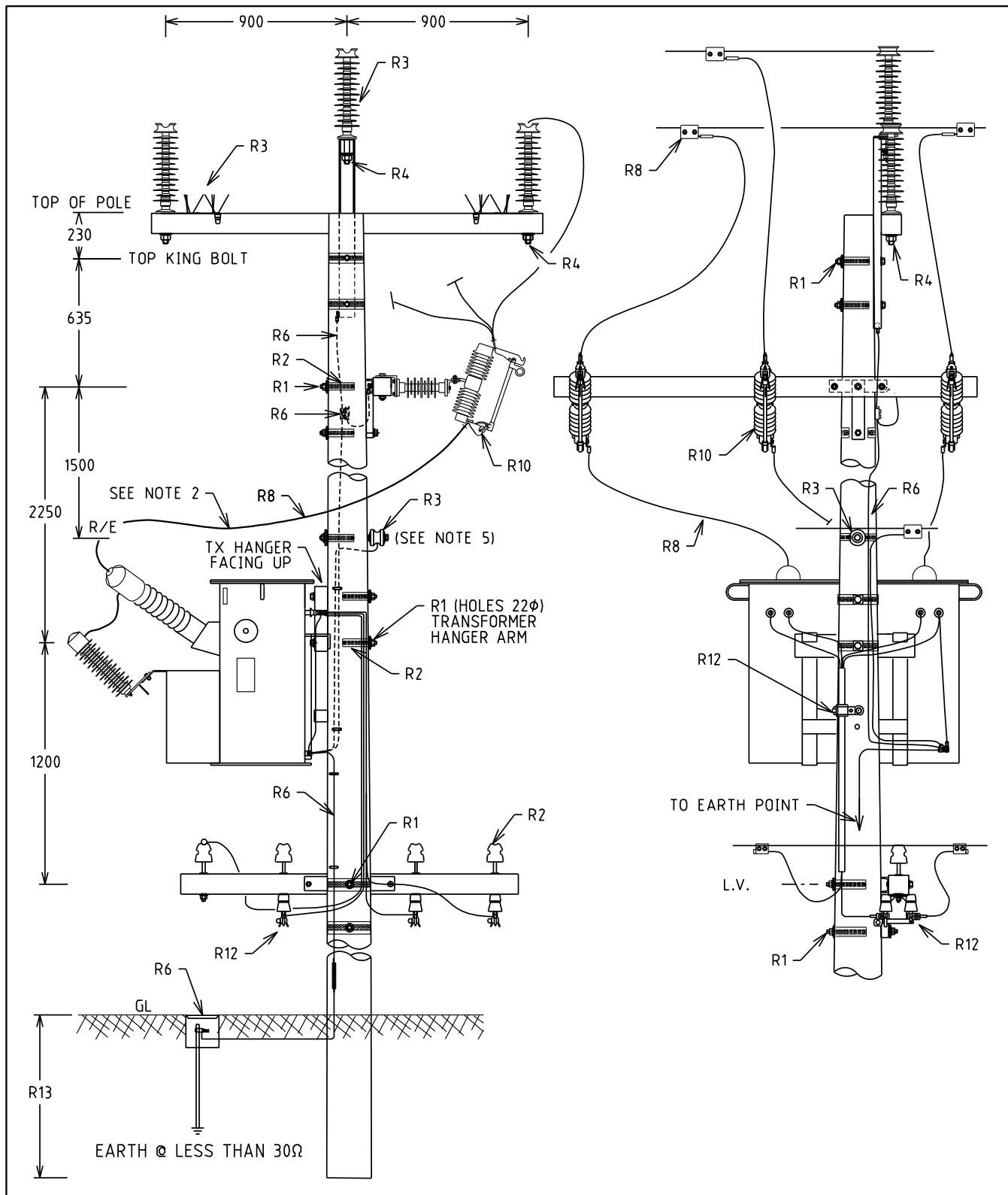


				STRUCTURE		DISTRIBUTION CONSTR. STANDARD		westernpower	
TITLE				3 PHASE TERMINATION & CABLE SINGLE PHASE TEE-OFF		DRAWN: JRR DATE: 18-03-2014 DRG. No.		H09-3	
C 15.09.14 NOTE 4 REVISED				GS		ORIGINATED: SCALE: NTS		REV. C	
B 09.07.14 FORMAT CHANGED AND NOTES REVISED				GS		CHECKED: REE		SHT.	
A 12.12.11 ORIGINAL ISSUE						APPROVED: GRANT STACY			
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.				



NOTES:-  
 1. ALL DIMENSIONS ARE IN MILLIMETRES.

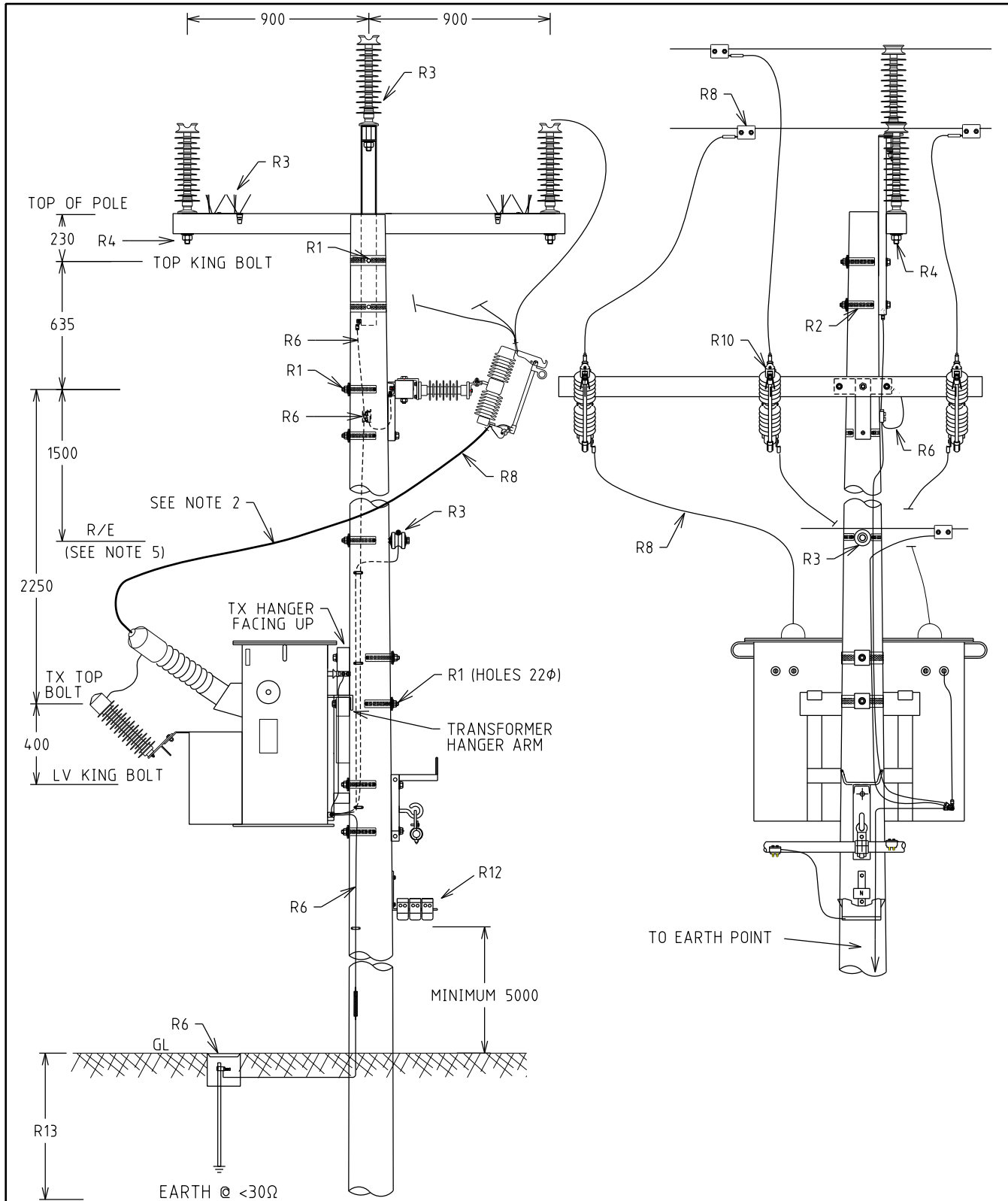
				STRUCTURE		DISTRIBUTION CONSTR. STANDARD			
				TITLE		DRAWN: JRR DATE: 01-10-2019 DRG. No.		H09-4	
				TERMINATION CABLE SINGLE PHASE TX AND DOF		ORIGINATED: NN SCALE: NTS			
						CHECKED: REE		REV. A	
						APPROVED: GRANT STACY			
A	18 10 19	ORIGINAL ISSUE		NN	REE	GS			
REV	DATE	DESCRIPTION		ORGO	CHKD	APRD			



12.5m POLE min.

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. TRAIL INSULATED JUMPERS AWAY FROM R/E & TOP OF TX TANK. MINIMUM PH-E 380mm CLEARANCE
  3. ALL HOLES 180 U.O.N.
  4. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600m.
  5. USE RUNNING EARTH INTERMEDIATE ANGLE, IF DEVIATION IS >2°.
  6. FOR 2 BUSHING TRANSFORMER OMIT CENTRE PHASE.

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD			
				TITLE			DRAWN: JRR DATE: 18-03-2014		ORG. No.	
				INTERMEDIATE TRANSFORMER HV TO OPEN AERIAL			ORIGINATED: SCALE: NTS		H10-1	
							CHECKED: REE			
							APPROVED: GRANT STACY		REV L SHY. 1/1	
REV.	DATE	DESCRIPTION	DRGD.	CHKD.	APRD.					
L	08.12.25	EARTHING TO TOP & DDF CROSSARM ADDED	CO	KT	MM					
K	16.11.18	EARTHING SYSTEM MODIFIED & TX MODEL CHANGED	NM	NN	GS					
J	17.05.16	NOTE 7 ADDED	REE	CO	GS					

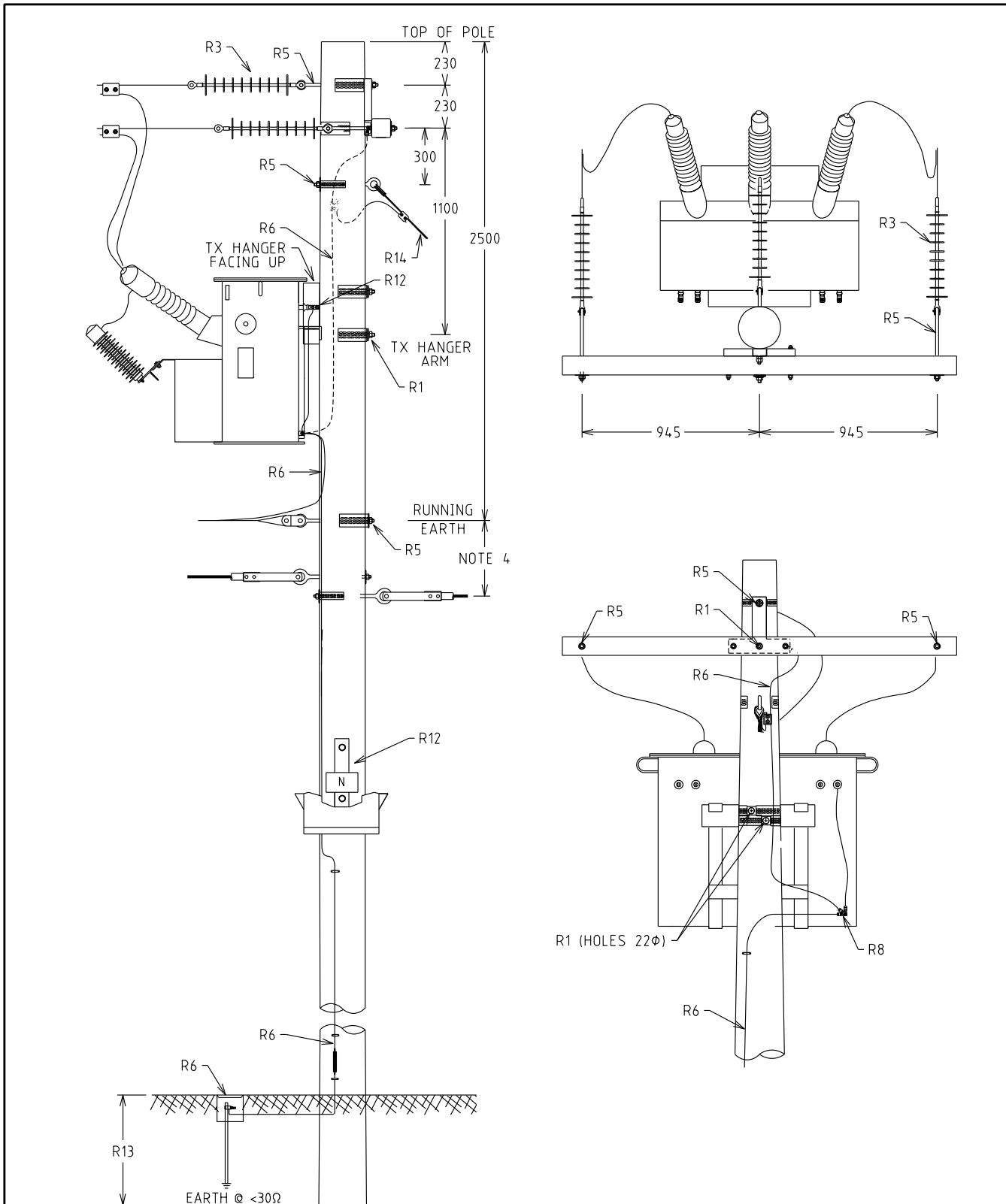


**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. TRAIN INSULATED JUMPERS AWAY FROM R/E & TOP OF TX TANK. MINIMUM PH-E 380mm CLEARANCE
3. ALL HOLES 180 U.O.N.
4. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600m.
5. USE RUNNING EARTH INTERMEDIATE ANGLE, IF DEVIATION IS  $>2^\circ$ .
6. FOR 2 BUSHING TRANSFORMER OMIT CENTRE PHASE.

**12.5m POLE min.**

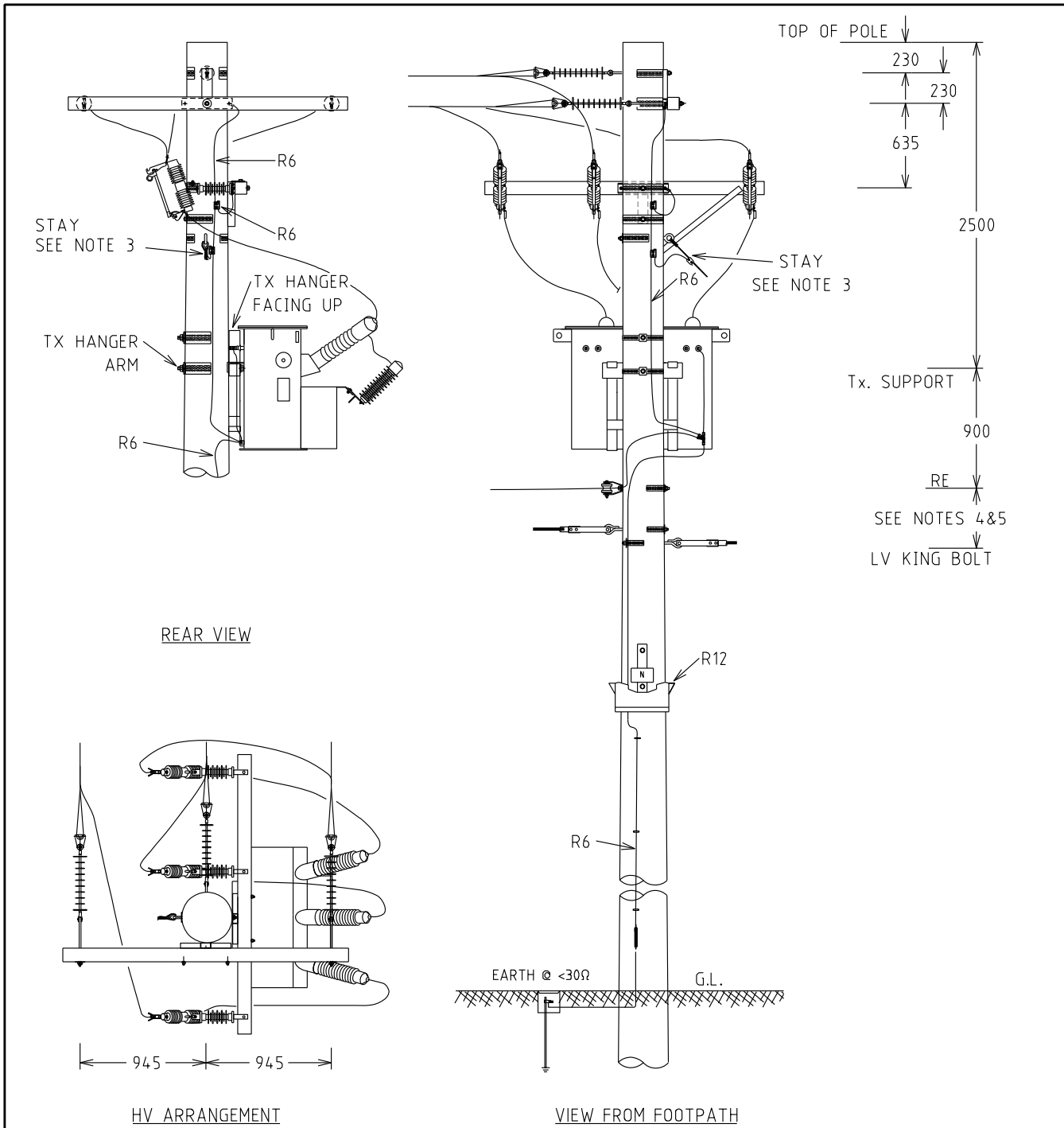
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower		
N	10.12.25	EARTHING TO TOP & DOF CROSSARM ADDED	CO	KT	MM	TITLE	DRAWN: JRR	DATE: 18-03-2014	DRG. No.		
M	18.10.19	LV KING BOLT LOCATION ADDED	CO	NMc	GS	<b>INTERMEDIATE TRANSFORMER HV TO ABC</b>	ORIGINATED:	SCALE: NTS	<b>H10-2</b>		
L	16.11.18	EARTHING SYSTEM MODIFIED & TX MODEL CHANGED	NMc	NN	GS		CHECKED: REE				
K	17.05.16	NOTE 7 ADDED	REE	CO	GS		APPROVED:				
J	15.02.16	NOTE 5 ADDED	REE	JC	GS		GRANT STACY	REV. N		SHT. 1/1	
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.						



**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18φ U.O.N.
3. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600m
4. REFER TO DWG. H01-1 NOTES FOR CLEARANCES BETWEEN RE & LV.

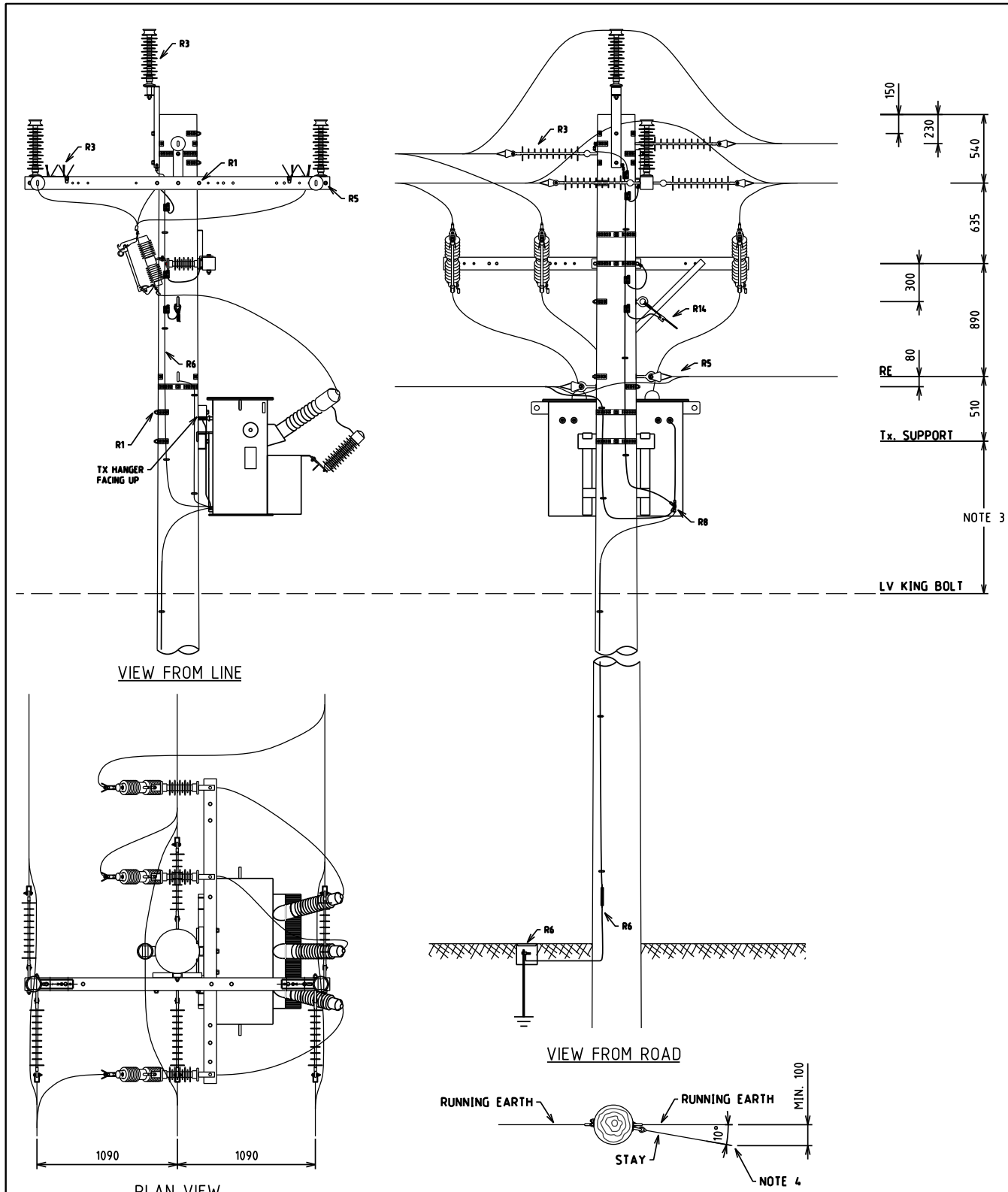
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD					
				TITLE			DRAWN: JRR		DATE: 18-03-2014		DRG. No.	
				IN-LINE TERMINATION TRANSFORMER			ORIGINATED:		SCALE: NTS		<b>H11-1</b>	
							CHECKED: REE		APPROVED: GRANT STACY			
											SHT. 1/1	
REV.	DATE	DESCRIPTION	DRGD.	CHKD.	APRD.							



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18Ø U.O.N.
3. STAY POSITION TO SUIT TAPS, MIN OF 400mm TO NEAREST HV CONDUCTOR.
4. REFER TO DWG. H01-1 NOTES FOR CLEARANCES BETWEEN RE & LV.
5. IF THERE IS NO RUNNING EARTH THIS DISTANCE IS 300.

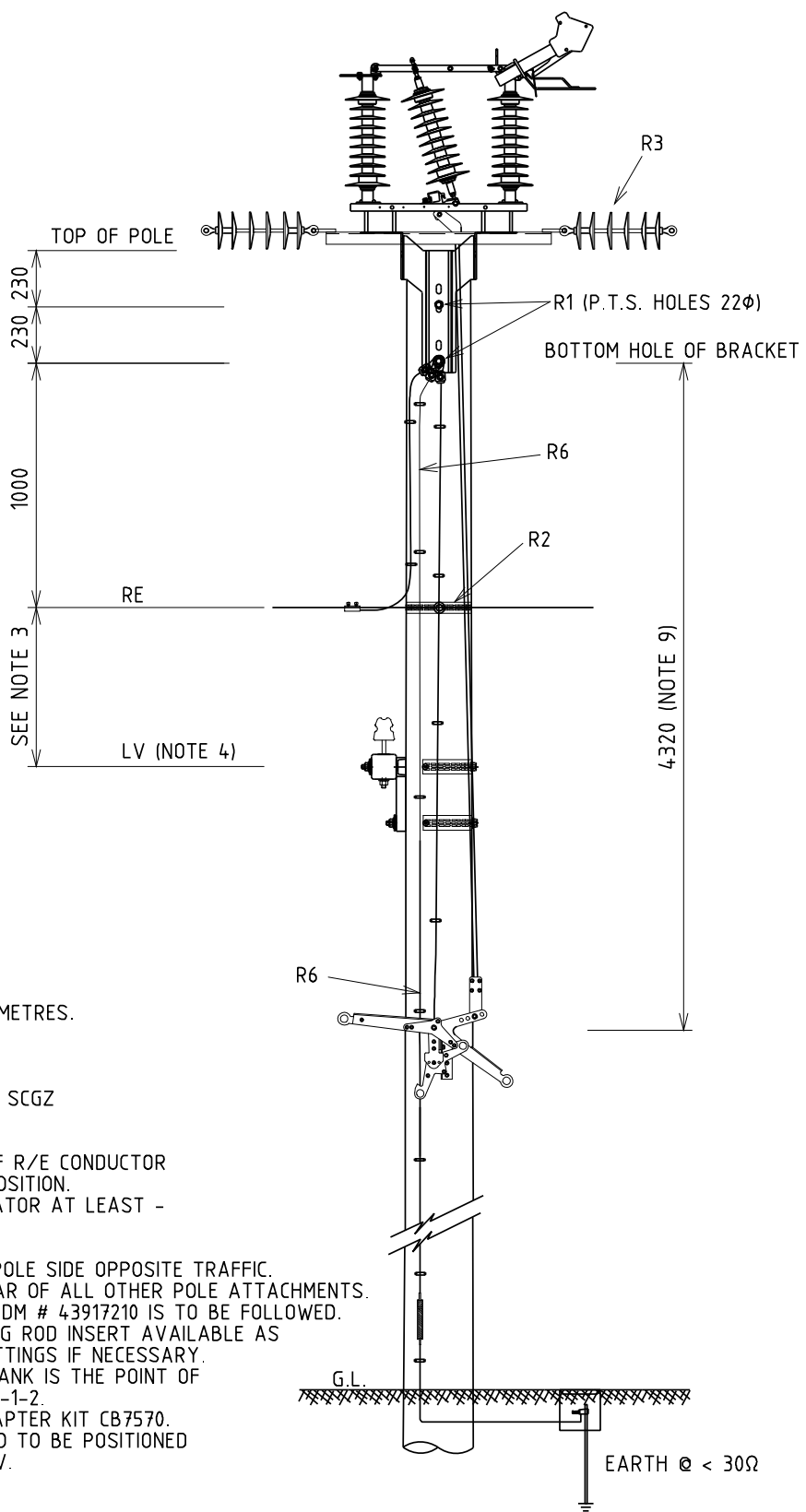
				STRUCTURE		DISTRIBUTION CONSTR. STANDARD		westernpower	
I	08.12.25	EARTHING TO TOP & DOF CROSSARM ADDED	CO	KT	MM	TITLE			
H	15.07.22	DOF CROSS-ARM LOCATION CHANGED	NMc	NN	GS	SIDE MOUNTED TERMINATION TRANSFORMER WITH DROPOUT FUSES			
G	16.11.18	EARTHING SYSTEM MODIFIED & TX MODEL CHANGED	NMc	NN	GS	DRAWN: JRR		DATE: 18-03-2014	
F	09.08.17	LV UNDERSLUNG SWITCH REVISED	REE	JC	GS	ORIGINATED:		SCALE: NTS	
E	20.06.17	NOTES REVISED AND DIMENSION 2500 WAS 3350	GS	NMc	GS	CHECKED: REE		APPROVED: GRANT STACY	
REV.	DATE	DESCRIPTION	DRGD.	CHKD.	APRD.	APPROVED:		REV	SHT.
								1	1/1



**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18Ø U.O.N.
3. WHEN LV CONDUCTOR IS LV ABC: 400  
OR IF LV CONDUCTOR IS LV BARE: 1200
4. GROUND STAY TO BE OFFSET BY 10° FROM RUNNING EARTH TO ACHIEVE  
MIN. 100mm SEPARATION BETWEEN RUNNING EARTH AND STAY AT CLOSEST APPROACH

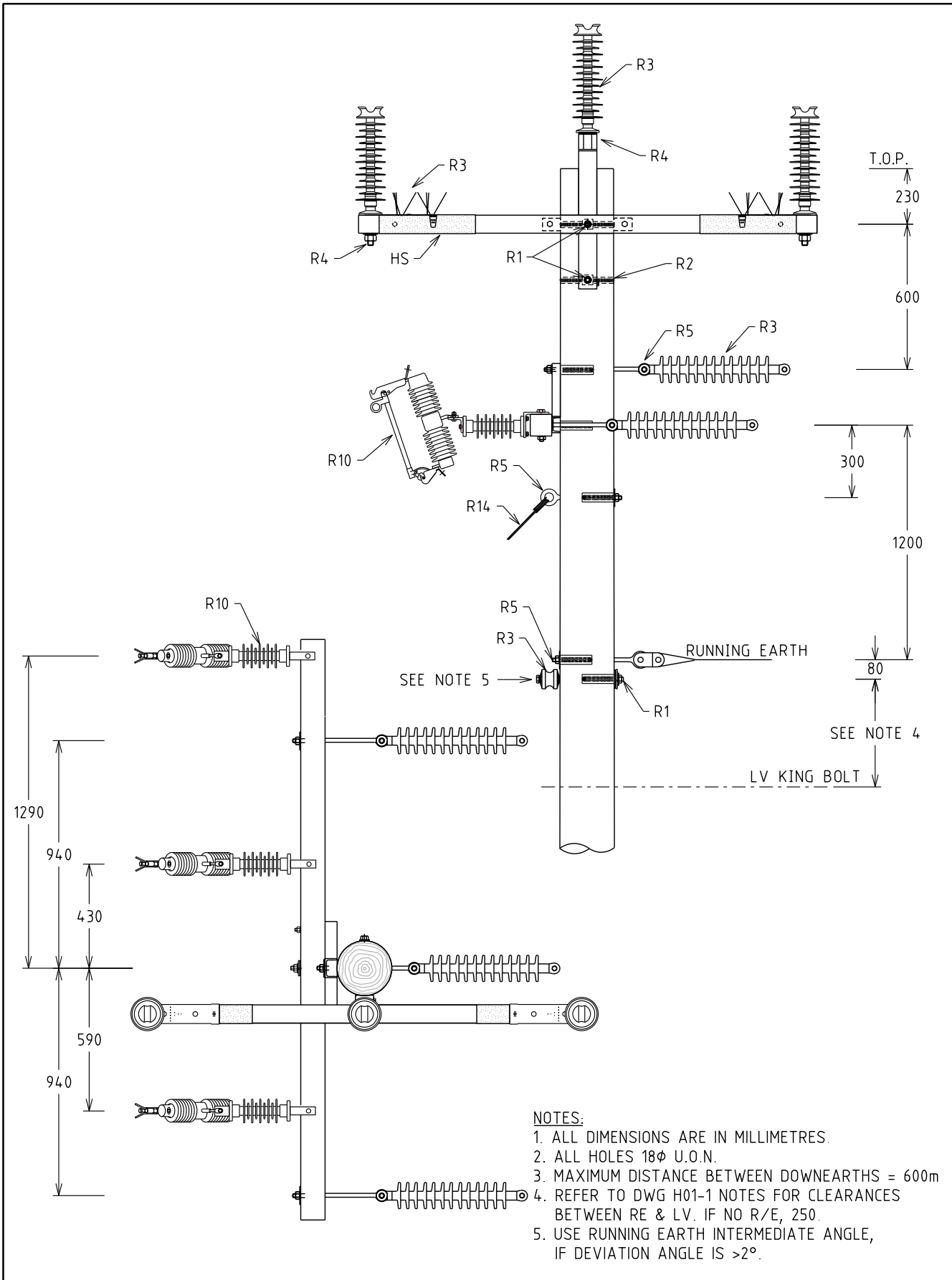
				STRUCTURE		DISTRIBUTION CONSTR. STANDARD			
				SIDE MOUNTED TERMINATION TRANSFORMER STRAIN		DRAWN: VAS DATE: 29-01-2026		ORG. No.	
						ORIGINATED: VAS SCALE: NTS		H11-3	
						CHECKED: ML			
						APPROVED: CHRIS OMODEI		REV. D SHT. 1/1	
REV.	DATE	DESCRIPTION	VAS	ML	CO				



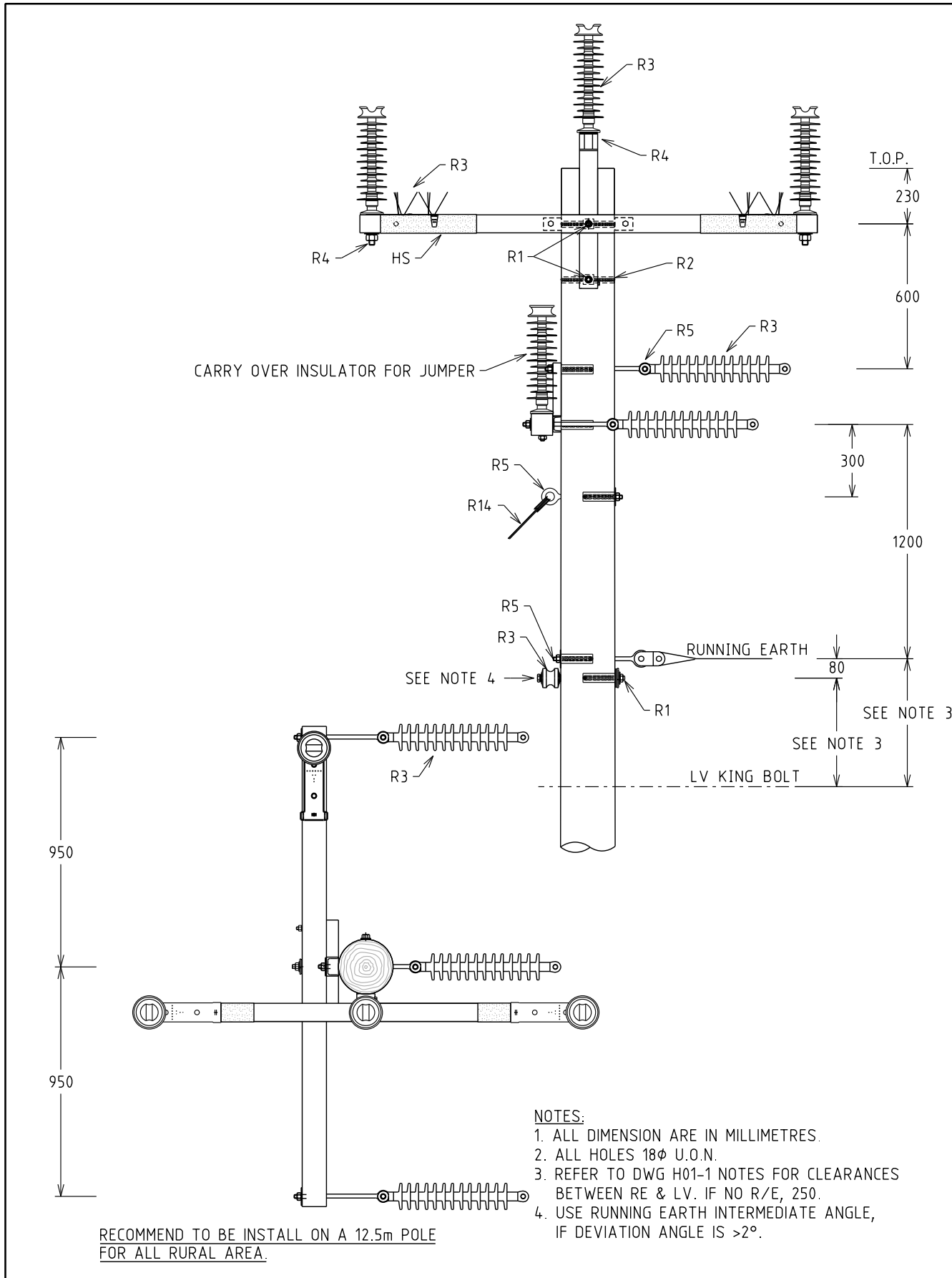
**NOTES:-**

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18Ø U.O.N.
3. WHEN LV CONDUCTOR IS;
  - (a) LV BARE CONDUCTOR -  
650 IF R/E IS SCAC OR SCGZ  
1100 IF R/E IS AAAC.
  - (b) LV ABC  
450 FOR ALL TYPES OF R/E CONDUCTOR
4. IF NO RE, RAISE LV TO RE POSITION.
5. POSITION OF MID POLE ACTUATOR AT LEAST -
  - a) 600 BELOW LV
  - b) 4000 ABOVE GROUND
6. ACTUATOR PREFERABLE ON POLE SIDE OPPOSITE TRAFFIC.
7. ENSURE OPERATING ROD CLEAR OF ALL OTHER POLE ATTACHMENTS.
8. INSTALLATION INSTRUCTION EDM # 43917210 IS TO BE FOLLOWED.
9. 1200mm EXTENSION OPERATING ROD INSERT AVAILABLE AS REQUIRED TO CLEAR POLE FITTINGS IF NECESSARY.
10. IF TRANSFORMER ON POLE, TANK IS THE POINT OF COMMON CONNECTION. SEE R6-1-2.
11. ON CONCRETE POLES USE ADAPTER KIT CB7570.
12. PVC COVERED OPERATING ROD TO BE POSITIONED WHERE ROD PASSES BARE LV.

			STRUCTURE			DISTRIBUTION CONSTR. STANDARD			
E	20.09.19	NOTE 12 ADDED	REE	NN	GS	DRAWN: JRR		DATE: 26-10-2017	DRG. No.
D	29.11.18	NOTE 11 ADDED, EARTHING SYSTEM CHANGED	REE	NN	GS	ORIGINATED: REE		SCALE: NTS	H12
C	23.01.18	TITLE AND DRAWING NUMBER CHANGED	REE	NMc	GS	CHECKED: REE			
B	30.11.17	NOTES REVISED	REE	JC	GS	APPROVED: GRANT STACY		REV. E	SHT.
A	26.10.17	ORIGINAL ISSUE	REE	JC	GS				
REV	DATE	DESCRIPTION	ORGO	CHKD	APRD				



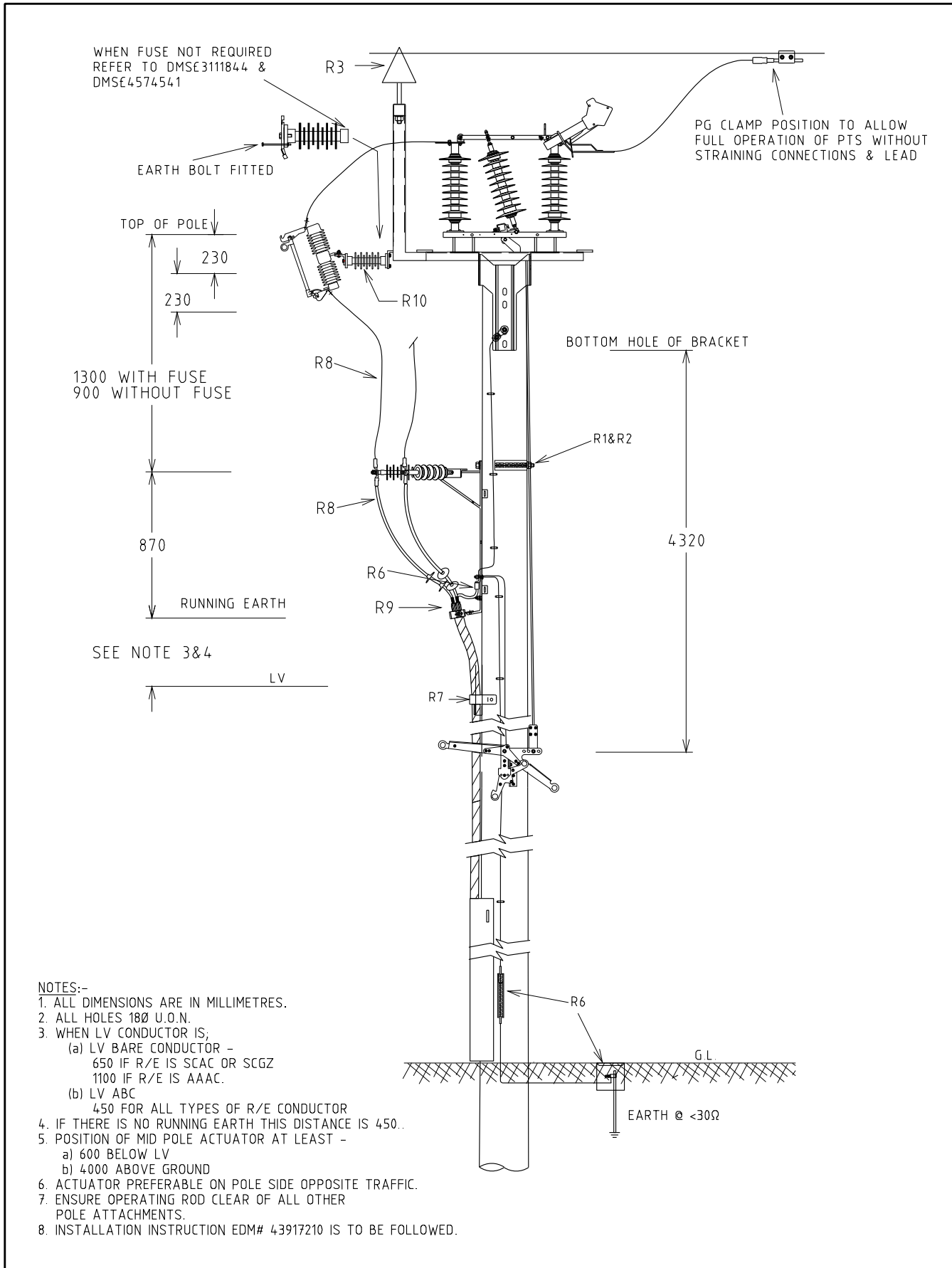
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower	
F	06.11.25	RE ATTACHMENT LOCATION UPDATED. R3 & R5 UPDATED	KT	NMc	CO	TITLE	DRAWN: JRR	DATE: 18-03-2014	DRG. No.	
E	02.09.15	DRG # & TITLE CHANGED AND DRAWING REVISED TO SUIT	REE	REE	GS	TEE-OFF WITH DROPOUT FUSES	ORIGINATED:	SCALE: NTS	H13-1	
D	10.02.15	NOTE 5 ADDED	JC	REE	GS		CHECKED: REE			
C	15.09.14	NOTE 4 REVISED			GS	APPROVED:	GRANT STACY		REV. F	SHT. 1/1
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.					



RECOMMEND TO BE INSTALL ON A 12.5m POLE FOR ALL RURAL AREA.

- NOTES:
1. ALL DIMENSION ARE IN MILLIMETRES.
  2. ALL HOLES 18φ U.O.N.
  3. REFER TO DWG H01-1 NOTES FOR CLEARANCES BETWEEN RE & LV. IF NO R/E, 250.
  4. USE RUNNING EARTH INTERMEDIATE ANGLE, IF DEVIATION ANGLE IS >2°.

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower			
				TITLE							DRAWN: JRR DATE: 11-06-2015 DRG. No.	
				TEE-OFF WITHOUT DROPOUT FUSES							ORIGINATED: REE SCALE: NTS	
											H13-2	
											CHECKED: REE	
											APPROVED: GRANT STACY	
											REV. C SH. 1/1	
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.							
C	06.11.25	RE ATTACHMENT LOCATION UPDATED. R3 & R5 UPDATED	KT	NMc	CO							
B	19.12.17	NOTES REVISED	JC	REE	GS							
A	02.09.15	ORIGINAL ISSUE	REE	REE	GS							



WHEN FUSE NOT REQUIRED  
REFER TO DMSE3111844 &  
DMSE4574541

PG CLAMP POSITION TO ALLOW  
FULL OPERATION OF PTS WITHOUT  
STRAINING CONNECTIONS & LEAD

TOP OF POLE  
230  
230  
1300 WITH FUSE  
900 WITHOUT FUSE  
870  
RUNNING EARTH

BOTTOM HOLE OF BRACKET

4320

SEE NOTE 3 & 4

LV

NOTES:-

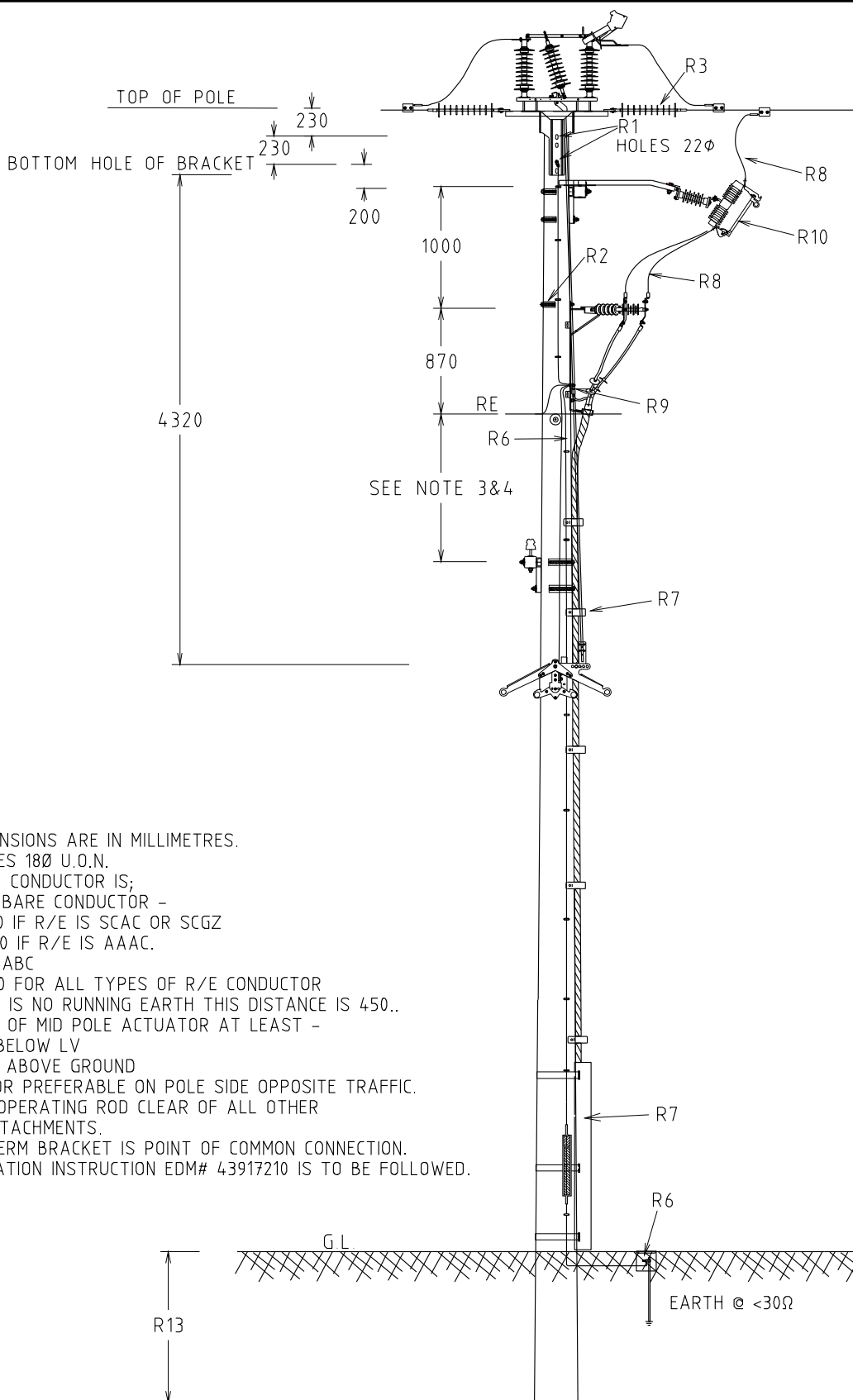
1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18Ø U.O.N.
3. WHEN LV CONDUCTOR IS:
  - (a) LV BARE CONDUCTOR -  
650 IF R/E IS SCAC OR SCGZ  
1100 IF R/E IS AAAC.
  - (b) LV ABC  
450 FOR ALL TYPES OF R/E CONDUCTOR
4. IF THERE IS NO RUNNING EARTH THIS DISTANCE IS 450..
5. POSITION OF MID POLE ACTUATOR AT LEAST -
  - a) 600 BELOW LV
  - b) 4000 ABOVE GROUND
6. ACTUATOR PREFERABLE ON POLE SIDE OPPOSITE TRAFFIC.
7. ENSURE OPERATING ROD CLEAR OF ALL OTHER POLE ATTACHMENTS.
8. INSTALLATION INSTRUCTION EDM# 43917210 IS TO BE FOLLOWED.

GL

EARTH @ <30Ω

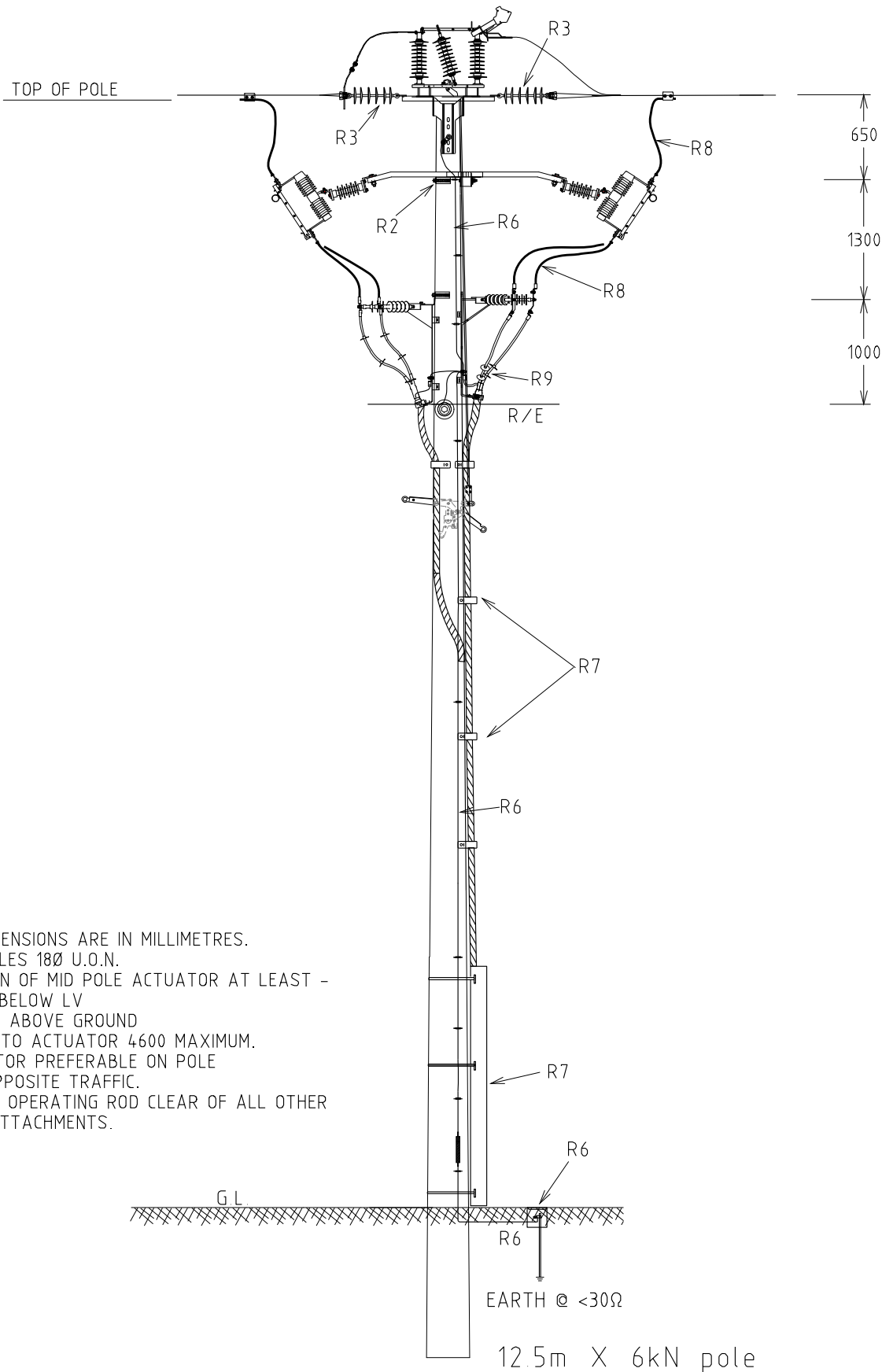
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD			
				TITLE			DRAWN: JRR DATE: 09-01-2018 DRG. No.		H14 - 1	
				COMBINATION SWITCH & FUSE WITH RAISER (FLY-OVER SWITCH)			ORIGINATED: REE SCALE: NTS			
							CHECKED: JC		REV. C	
							APPROVED: GRANT STACY			
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.					
C	29.11.18	NOTE 8 ADDED	REE	NN	GS					
B	19.06.18	EARTHING CONNECTION AND HANDLE DIMENSION CHANGED	REE	NMc	GS					
A	31.01.18	ORIGINAL ISSUE	REE	JC	GS					





- NOTES:-
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. ALL HOLES 18Ø U.O.N.
  3. WHEN LV CONDUCTOR IS;
    - (a) LV BARE CONDUCTOR - 650 IF R/E IS SCAC OR SCGZ  
1100 IF R/E IS AAAC.
    - (b) LV ABC 450 FOR ALL TYPES OF R/E CONDUCTOR
  4. IF THERE IS NO RUNNING EARTH THIS DISTANCE IS 450..
  5. POSITION OF MID POLE ACTUATOR AT LEAST -
    - a) 600 BELOW LV
    - b) 4000 ABOVE GROUND
  6. ACTUATOR PREFERABLE ON POLE SIDE OPPOSITE TRAFFIC.
  7. ENSURE OPERATING ROD CLEAR OF ALL OTHER POLE ATTACHMENTS.
  8. CABLE TERM BRACKET IS POINT OF COMMON CONNECTION.
  9. INSTALLATION INSTRUCTION EDM# 43917210 IS TO BE FOLLOWED.

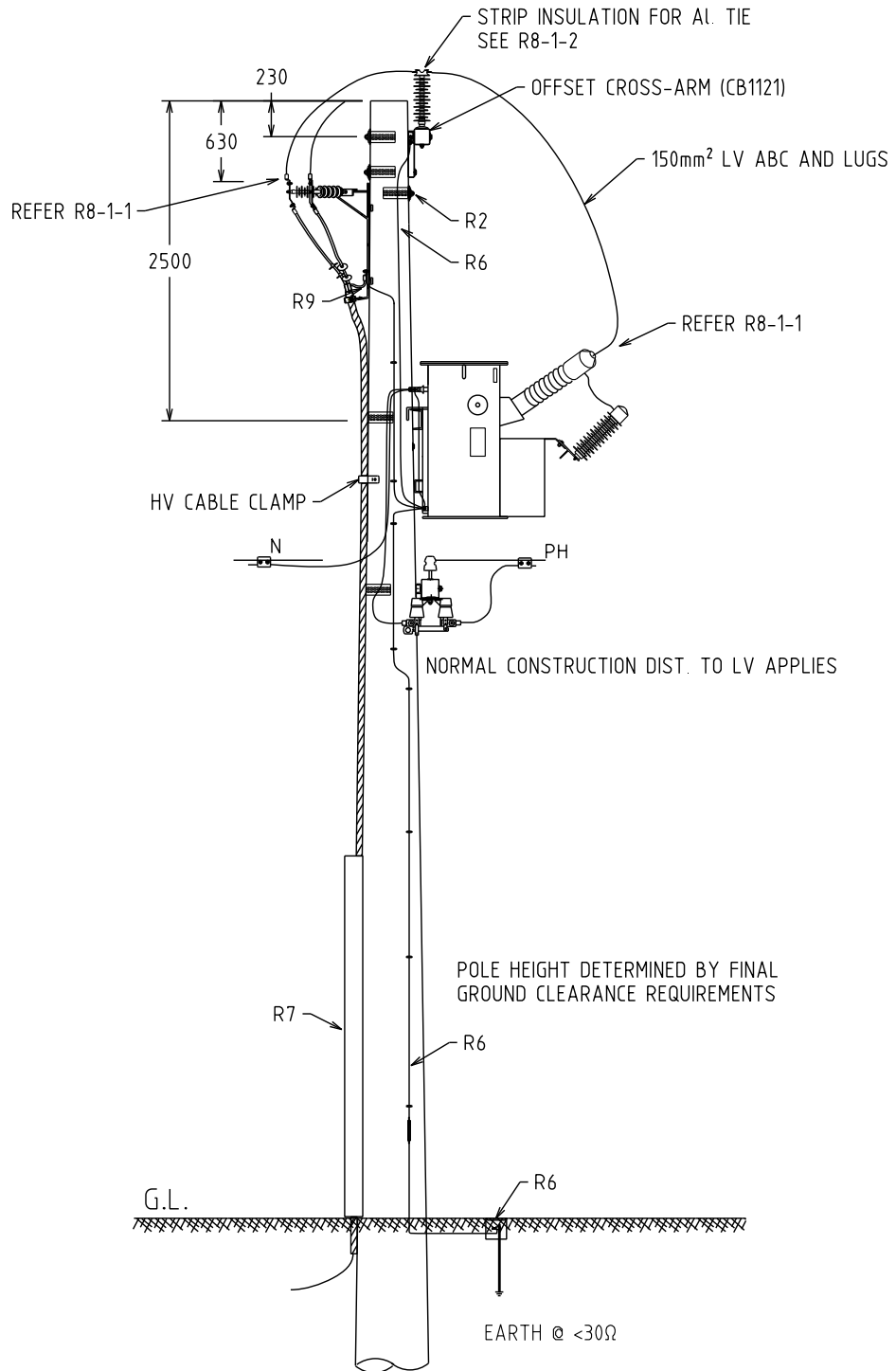
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower	
				COMBINATION SWITCH & FUSE			DRAWN: JRR DATE: 09-01-2018 DRG. No.		H14-2	
							ORIGINATED: REE SCALE: NTS			
							CHECKED: JC			
							APPROVED: GRANT STACY		REV. B	
REV	DATE	DESCRIPTION	ORGO	CHKD	APRD					
B	19.06.18	EARTHING SYSTEM AND HANDLE DIMENSION CHANGED	REE	NMc	GS					
A	23.01.18	ORIGINAL ISSUE	REE	JC	GS					



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18Ø U.O.N.
3. POSITION OF MID POLE ACTUATOR AT LEAST -
  - a) 600 BELOW LV
  - b) 4000 ABOVE GROUND
  - c) PTS TO ACTUATOR 4600 MAXIMUM.
4. ACTUATOR PREFERABLE ON POLE SIDE OPPOSITE TRAFFIC.
5. ENSURE OPERATING ROD CLEAR OF ALL OTHER POLE ATTACHMENTS.

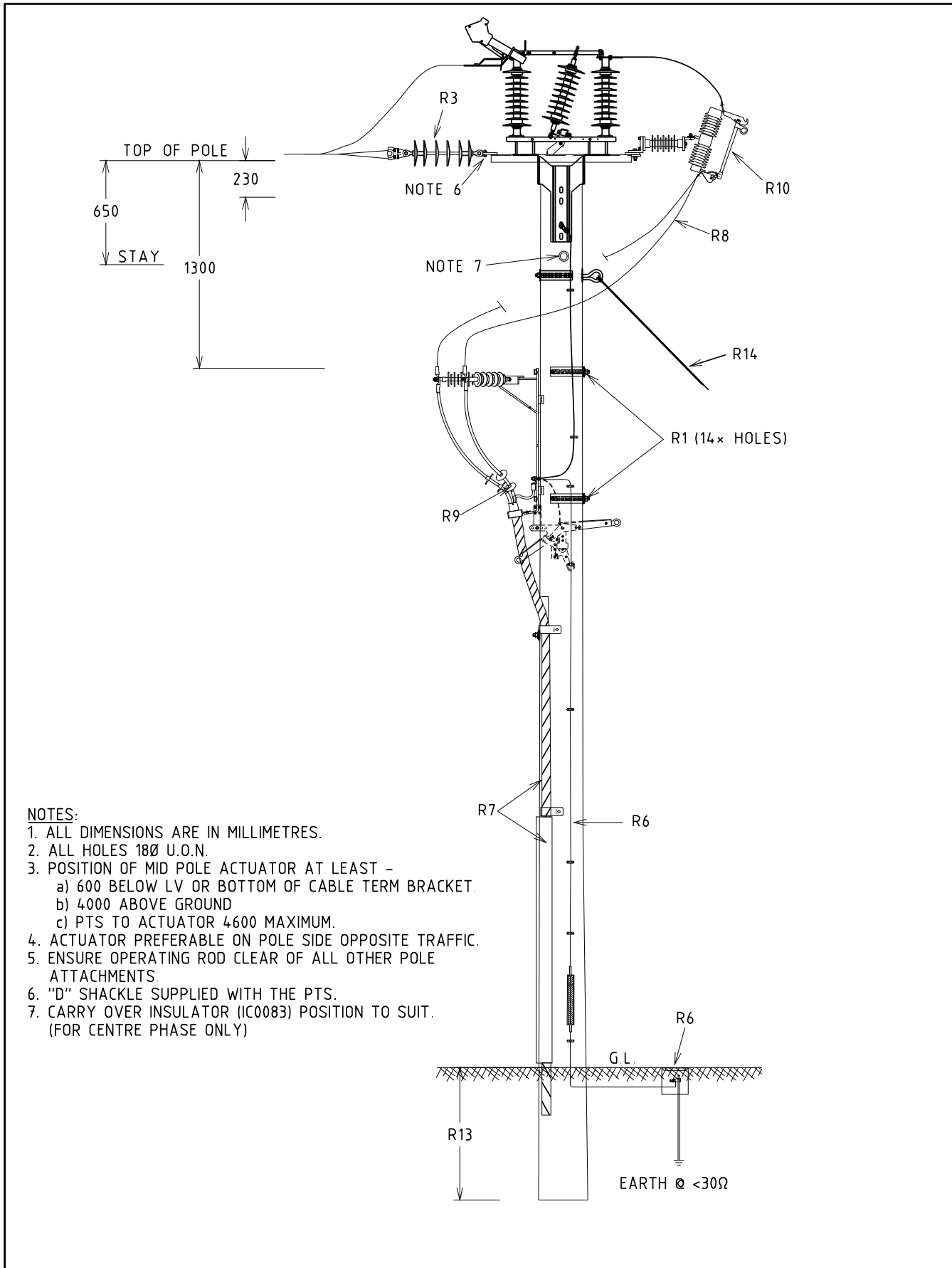
				STRUCTURE		DISTRIBUTION CONSTR. STANDARD			
				TITLE		DRAWN JRR		DATE: 18-03-2014	
				PTS & FUSES/ISOLATORS LAYOUT FOR 2 CABLES		ORIGINATED		SCALE: NTS	
						CHECKED: REE		DRG. No. H14-3	
						APPROVED: GRANT STACY		REV D	
D	31.01.18	PTS TYPE CHANGED		REE	JC	GS			
C	16.11.17	NOTES ADDED		REE	JC	GS			
REV.	DATE	DESCRIPTION		ORGD.	CHKD.	APRD.			



**NOTES:**

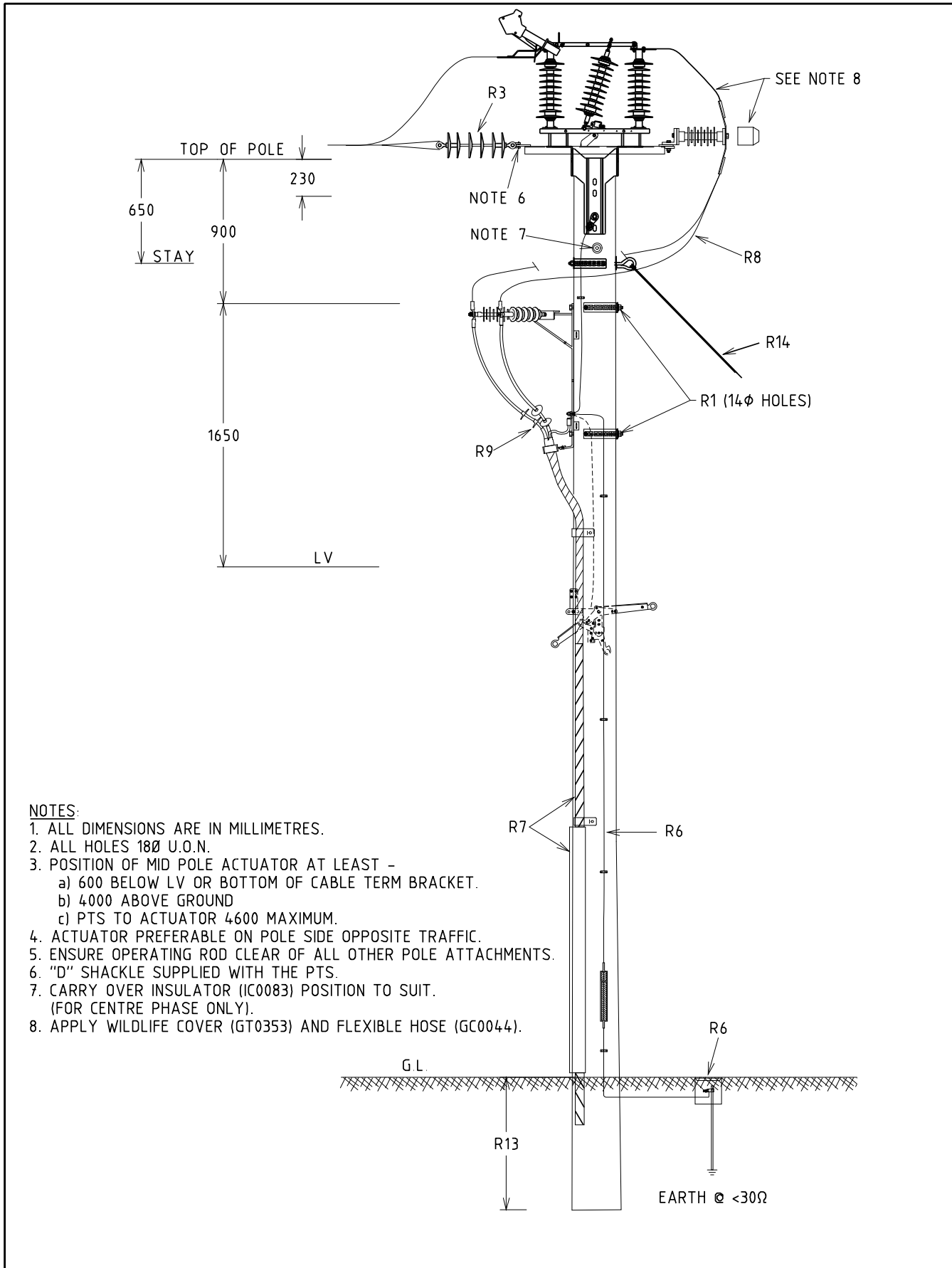
1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18Ø UON.
3. CROSS ARM NOT TO BE EARTHED.

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD					
				TITLE			DRAWN: JRR		DATE: 19-03-2014		DRG. No.	
				TRANSFORMER CABLE SUPPLIED			ORIGINATED:		SCALE: NTS		<b>H17-4</b>	
							CHECKED: REE		APPROVED: GRANT STACY			
											SHT. 1/1	
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.							



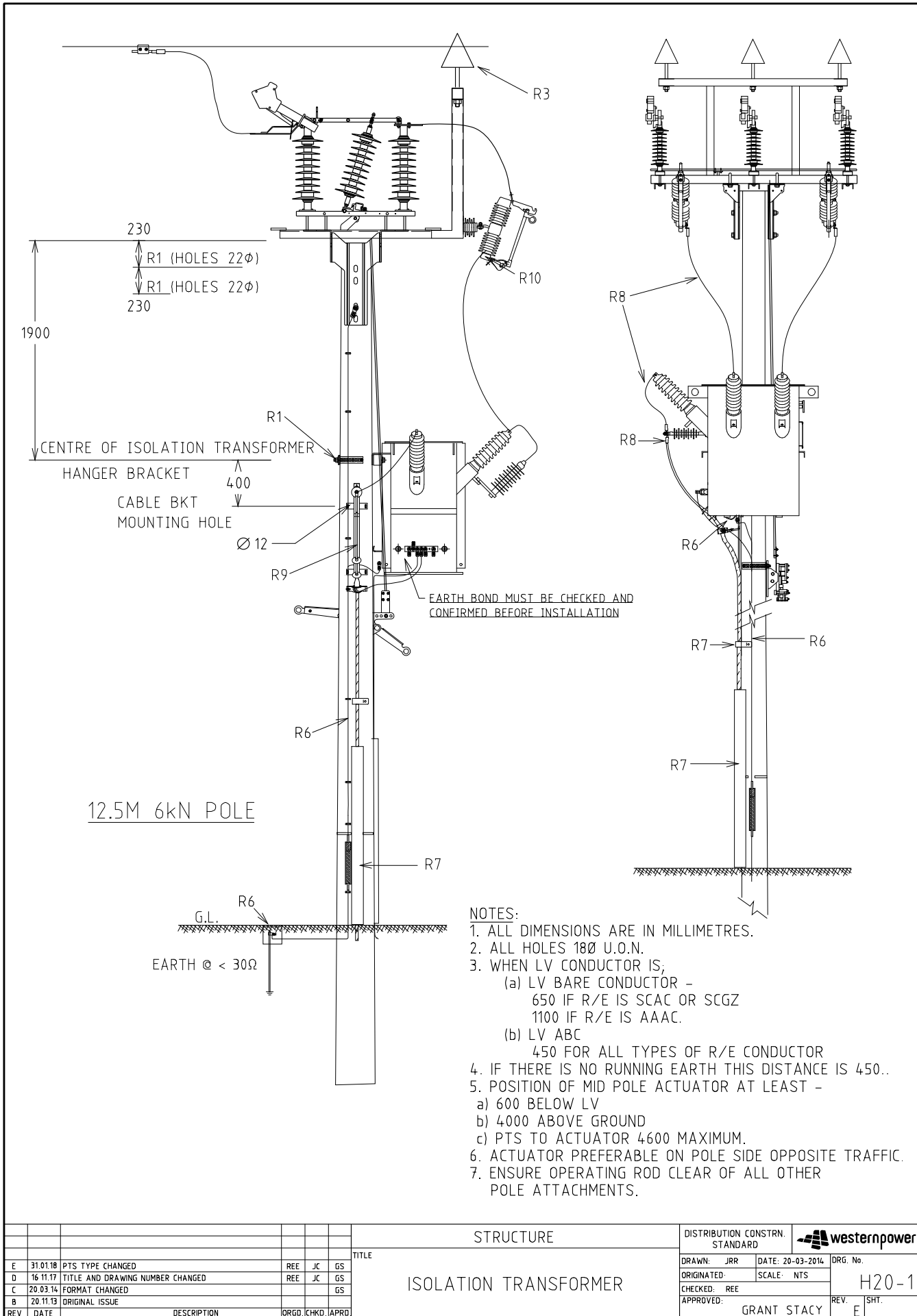
- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. ALL HOLES 18Ø U.O.N.
  3. POSITION OF MID POLE ACTUATOR AT LEAST -
    - a) 600 BELOW LV OR BOTTOM OF CABLE TERM BRACKET.
    - b) 4000 ABOVE GROUND
    - c) PTS TO ACTUATOR 4600 MAXIMUM.
  4. ACTUATOR PREFERABLE ON POLE SIDE OPPOSITE TRAFFIC.
  5. ENSURE OPERATING ROD CLEAR OF ALL OTHER POLE ATTACHMENTS.
  6. "D" SHACKLE SUPPLIED WITH THE PTS.
  7. CARRY OVER INSULATOR (IC0083) POSITION TO SUIT. (FOR CENTRE PHASE ONLY)

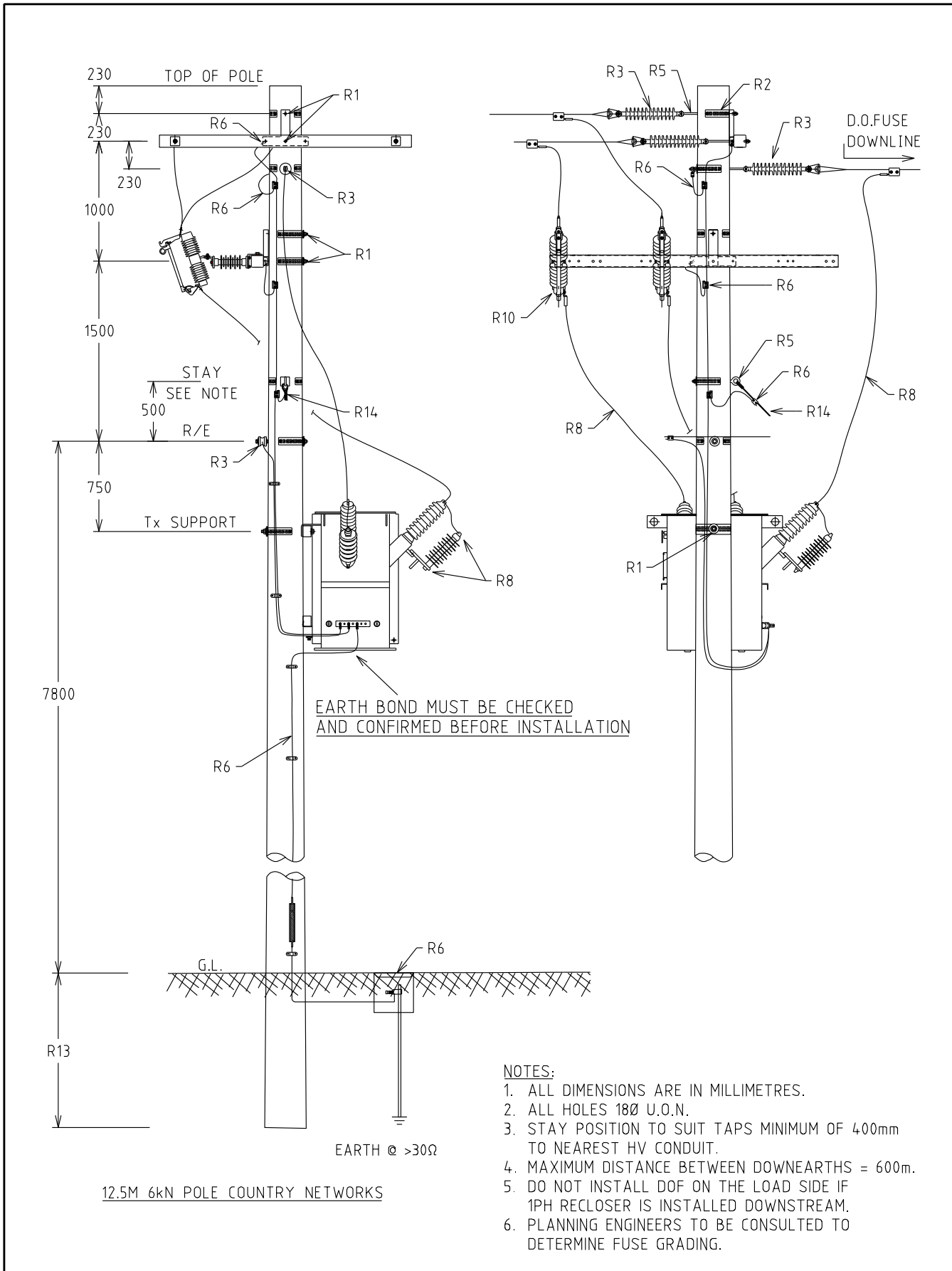
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower	
E	03.12.20	EARTHING AND DOF INSTALLATION METHOD MODIFIED	REE	NMc	GS	TITLE	DRAWN: JRR	DATE: 20-03-2014	DRG. No.	H18
D	31.01.18	PTS TYPE CHANGED	REE	JC	GS	TERMINATION POLE TOP SWITCH WITH CABLE & DROPOUT FUSE	ORIGINATED:	SCALE: NTS		
C	16.11.17	NOTES REVISED	REE	JC	GS		CHECKED: REE			
B	23.03.16	STAY ADDED	JC	REE	GS		APPROVED:			
A	20.11.13	ORIGINAL ISSUE					GRANT STACY	REV. E	SHT.	
REV	DATE	DESCRIPTION	ORGO	CHKD	APRD					



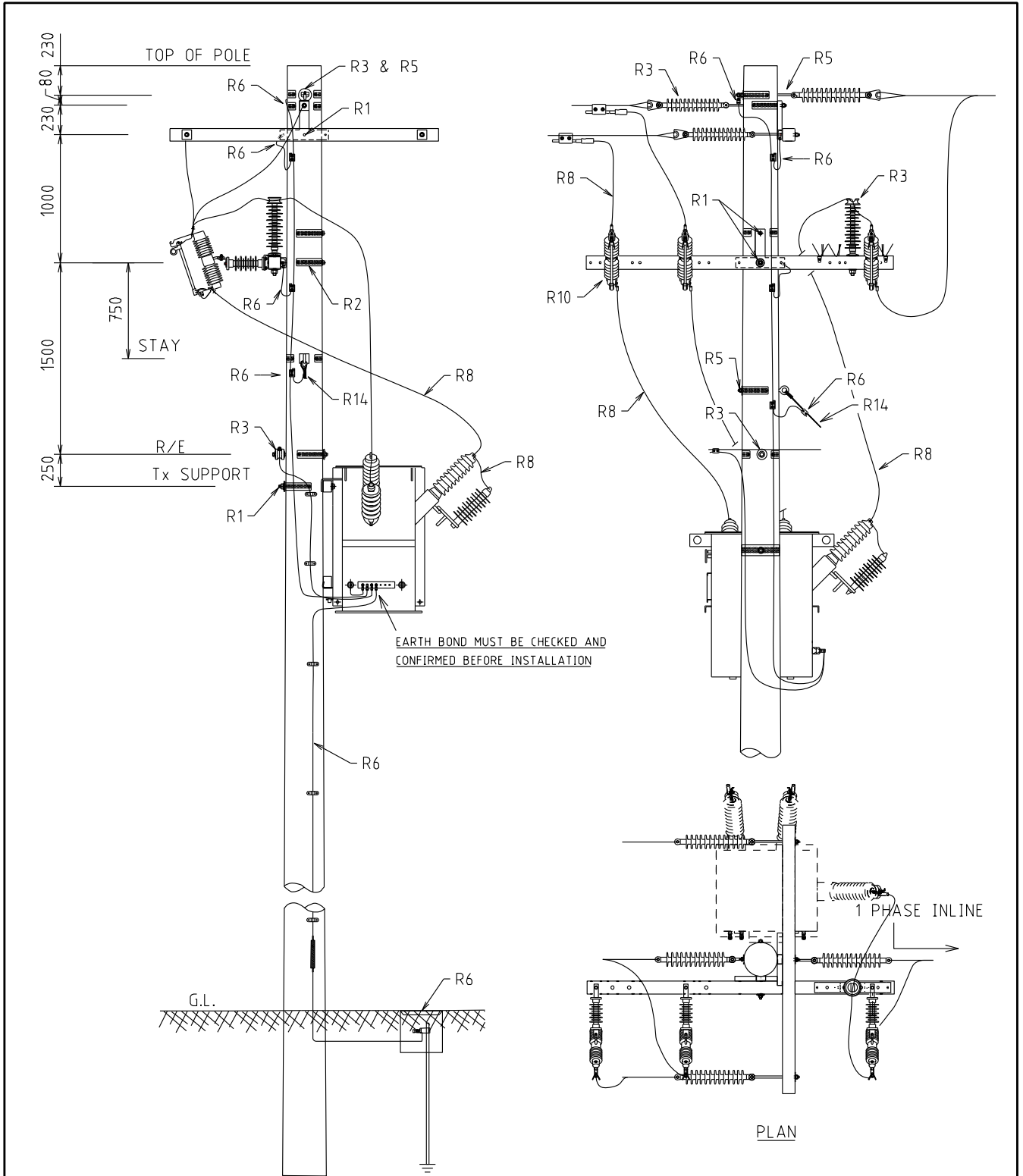
- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. ALL HOLES 18Ø U.O.N.
  3. POSITION OF MID POLE ACTUATOR AT LEAST -
    - a) 600 BELOW LV OR BOTTOM OF CABLE TERM BRACKET.
    - b) 4000 ABOVE GROUND
    - c) PTS TO ACTUATOR 4600 MAXIMUM.
  4. ACTUATOR PREFERABLE ON POLE SIDE OPPOSITE TRAFFIC.
  5. ENSURE OPERATING ROD CLEAR OF ALL OTHER POLE ATTACHMENTS.
  6. "D" SHACKLE SUPPLIED WITH THE PTS.
  7. CARRY OVER INSULATOR (IC0083) POSITION TO SUIT. (FOR CENTRE PHASE ONLY).
  8. APPLY WILDLIFE COVER (GT0353) AND FLEXIBLE HOSE (GC0044).

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD			
				TITLE			DRAWN: JRR DATE: 20-03-2014 DRG. No.		H19	
				TERMINATION POLE TOP SWITCH WITH CABLE ARRANGEMENT			ORIGINATED: SCALE: NTS			
							CHECKED: REE		GRANT STACY REV. E SHT.	
							APPROVED:			
REV	DATE	DESCRIPTION	ORGO	CHKD	APRD					
E	03.12.20	EARTHING & SURGE ARRESTOR INSTA. METHOD MODIFIED	REE	NMc	GS					
D	31.01.18	PTS TYPE CHANGED	REE	JC	GS					
C	16.11.17	NOTES REVISED	REE	JC	GS					
B	23.03.16	STAY ADDED, DWG. No AND TITLE CHANGED	JC	REE	GS					





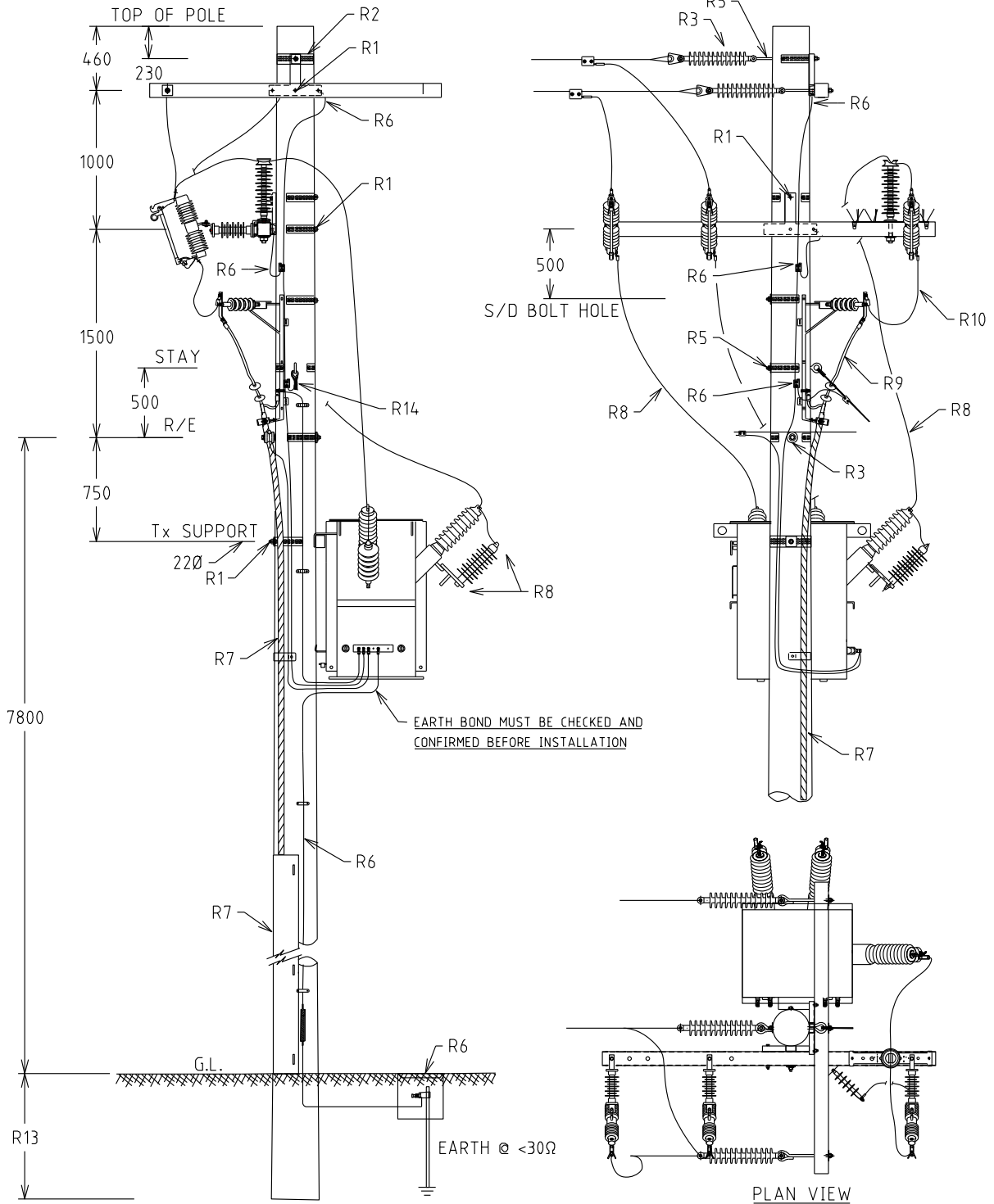
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower	
F	08.12.25	POLE TOP EARTHING ADDED. R5 UPDATED	CO	KT	MM	DRAWN: JRR		DATE: 20-03-2014	DRG. No.	
E	31.07.17	TITLE CHANGED	CO	NMc	GS	ORIGINATED:		SCALE: NTS	H20-2	
D	20.03.16	FORMAT CHANGED			GS	CHECKED: REE				
C	20.11.13	ORIGINAL ISSUE				APPROVED:		GRANT STACY	REV	SHT.
REV.	DATE	DESCRIPTION	DRGD.	CHKD.	APRD.				F	1/1



**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18φ U.O.N.
3. MAXIMUM DISTANCE BETWEEN DOWNEARTHS = 600m.
4. DO NOT INSTALL DOF ON THE LOAD SIDE IF 1PH RECLOSER IS INSTALLED DOWNSTREAM.
5. PLANNING ENGINEERS TO BE CONSULTED TO DETERMINE FUSE GRADING

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD					
				TITLE			DRAWN: JRR		DATE: 30-03-2014		DRG. No.	
				ISOLATION TRANSFORMER			ORIGINATED:		SCALE: NTS		<b>H20-3</b>	
				3 PH TERMINATION 1 PH IN-LINE			CHECKED: REE		APPROVED:			
				WITH DROPOUT FUSE			APPROVED: GRANT STACY		REV E		SHT. 1/1	
REV.	DATE	DESCRIPTION	DRGD.	CHKD.	APRD.							
E	08.12.25	POLE TOP EARTHING ADDED. R3 & R5 UPDATED	CO	KT	MM							
D	20.03.14	FORMAT CHANGED	CO	REE	GS							
C	20.11.13	ORIGINAL ISSUE										

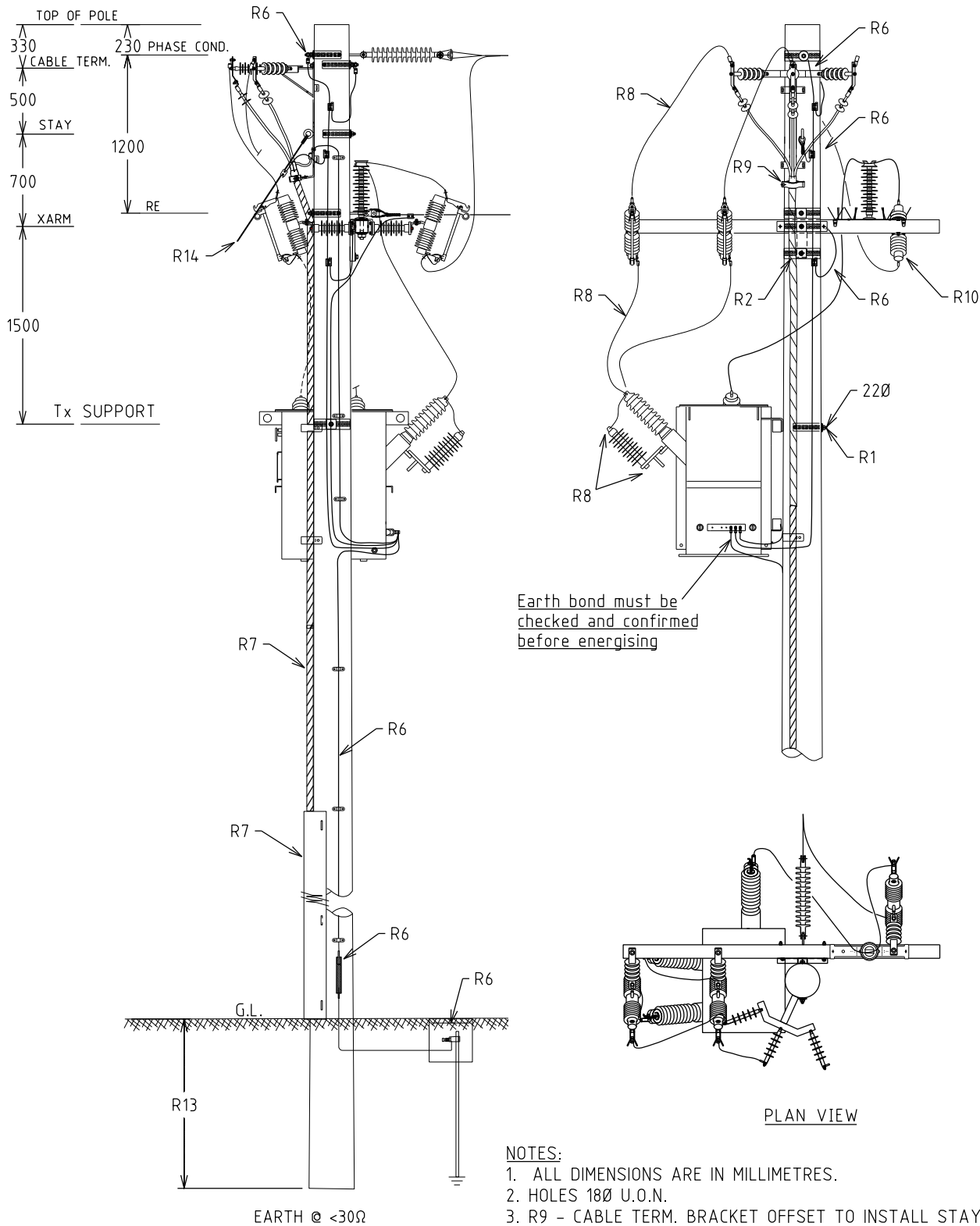


12.5M 6kN POLE COUNTRY NETWORKS

**NOTES:**

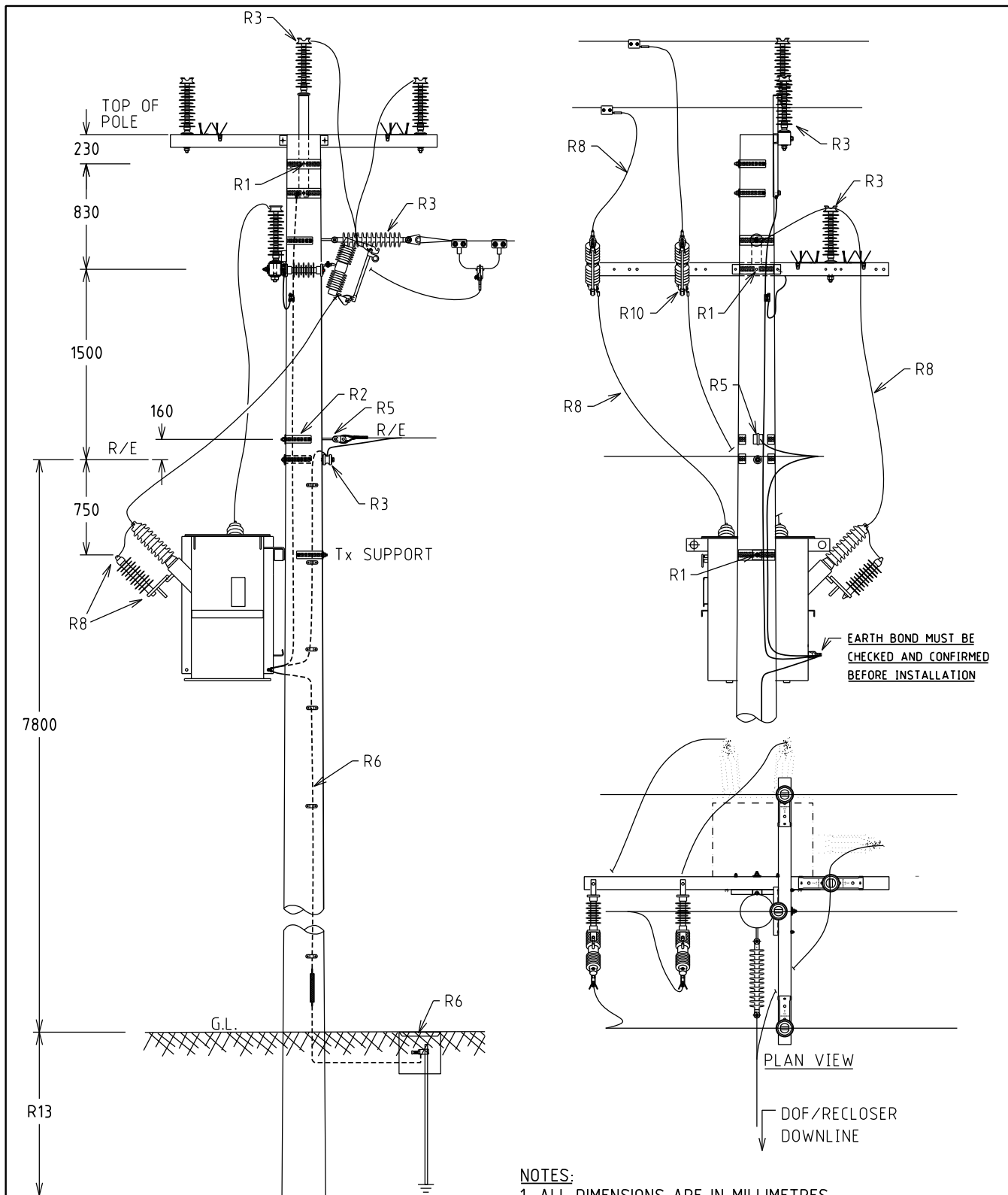
1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 180 U.O.N.
3. MAXIMUM DISTANCE BETWEEN DOWNEARTHS = 600m.
4. DO NOT INSTALL DOF ON THE LOAD SIDE IF 1PH RECLOSER IS INSTALLED DOWNSTREAM.
5. PLANNING ENGINEERS TO BE CONSULTED TO DETERMINE FUSE GRADING

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD					
				TITLE			DRAWN: JRR		DATE: 20-03-2014		DRG. No.	
				ISOLATION TRANSFORMER			ORIGINATED:		SCALE: NTS		<b>H20-4</b>	
				3 PH TERMINATION 1 PH IN-LINE			CHECKED: REE		APPROVED: GRANT STACY			
				WITH/WITHOUT DROPOUT FUSE							SHT. 1/1	
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.							
E	08.12.25	POLE TOP EARTHING ADDED. R3 & R5 UPDATED	CO	KT	MM							
D	20.03.16	FORMAT CHANGED			GS							
C	20.11.13	ORIGINAL ISSUE										



- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. HOLES 18Ø U.O.N.
  3. R9 - CABLE TERM. BRACKET OFFSET TO INSTALL STAY.
  4. MAXIMUM DISTANCE BETWEEN DOWNEARTHS = 600m.
  5. DO NOT INSTALL DOF ON THE LOAD SIDE IF 1PH RECLOSER IS INSTALLED DOWNSTREAM.
  6. PLANNING ENGINEERS TO BE CONSULTED TO DETERMINE FUSE GRADING

				STRUCTURE		DISTRIBUTION CONSTR. STANDARD			
				TITLE		DRAWN: JRR		DATE: 20-03-2014	
				ISOLATION TRANSFORMER		ORIGINATED:		SCALE: NTS	
				3 PH CABLE / 1 PH TEE-OFF		CHECKED: CO		H20-5	
				WITH DROPOUT FUSE / LINK		APPROVED: GRANT STACY			
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.			SHT. 1/1	

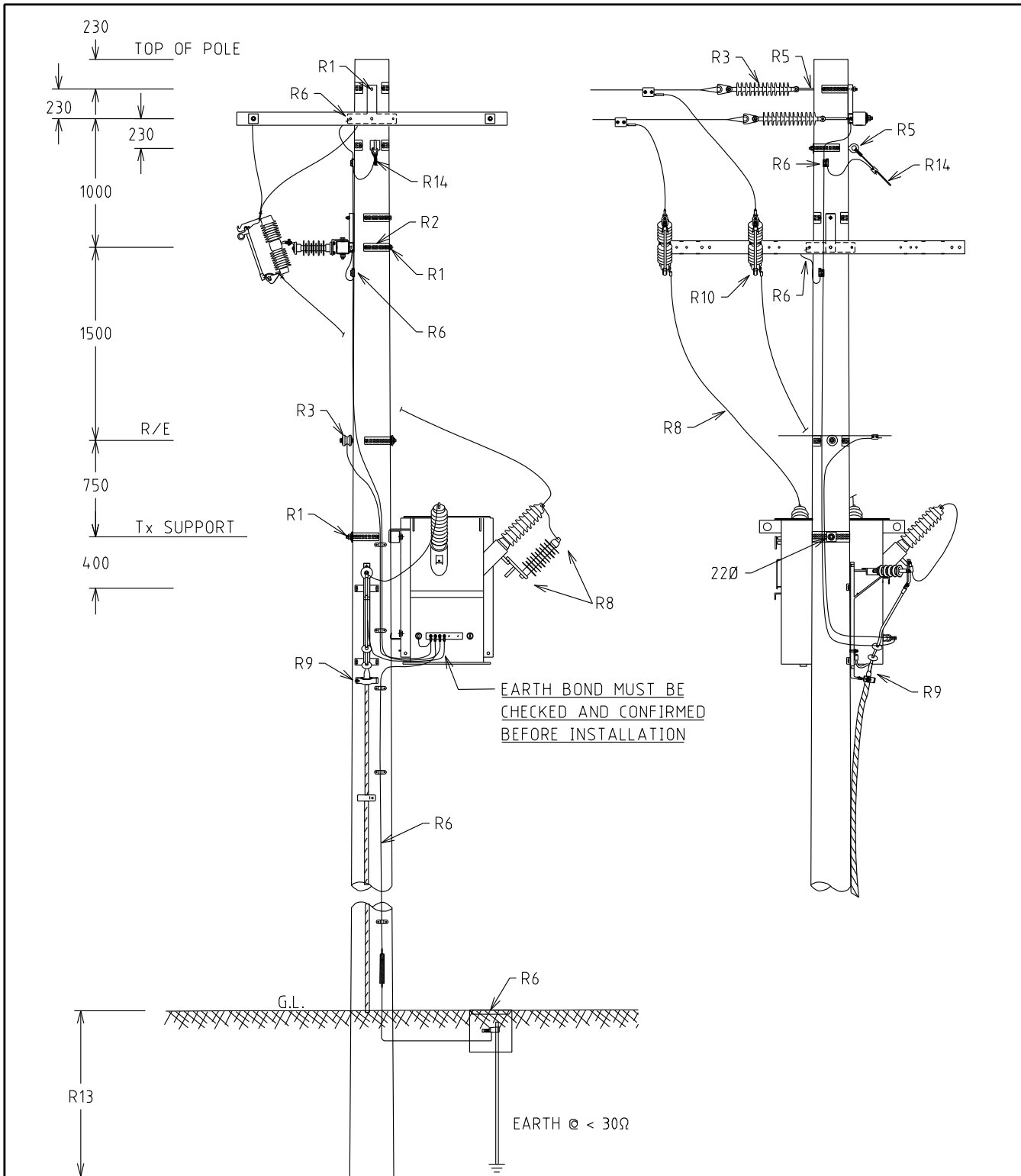


12.5M 6kN POLE COUNTRY NETWORKS

**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18Ø U.O.N.
3. MAXIMUM DISTANCE BETWEEN DOWNEARTHS = 600m
4. DO NOT INSTALL DOF ON THE LOAD SIDE IF 1PH RECLOSER IS INSTALLED DOWNSTREAM.
5. PLANNING ENGINEERS TO BE CONSULTED TO DETERMINE FUSE GRADING.

				STRUCTURE		DISTRIBUTION CONSTR. STANDARD			
				ISOLATION TRANSFORMER 3 PH IN-LINE / 1 PH TEE-OFF WITHOUT DROPOUT FUSE		DRAWN: JRR DATE: 20-03-2014		ORG. No.	
						ORIGINATED: SCALE: NTS		H20-6	
						CHECKED: REE		REV. E	
						APPROVED: GRANT STACY		SHT. 1/1	
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.				
E	10.12.25	POLE TOP EARTHING ADDED. R3 & R5 UPDATED	CO	KT	MM				
D	20.03.14	FORMAT CHANGED			GS				
C	20.07.11	ORIGINAL ISSUE							



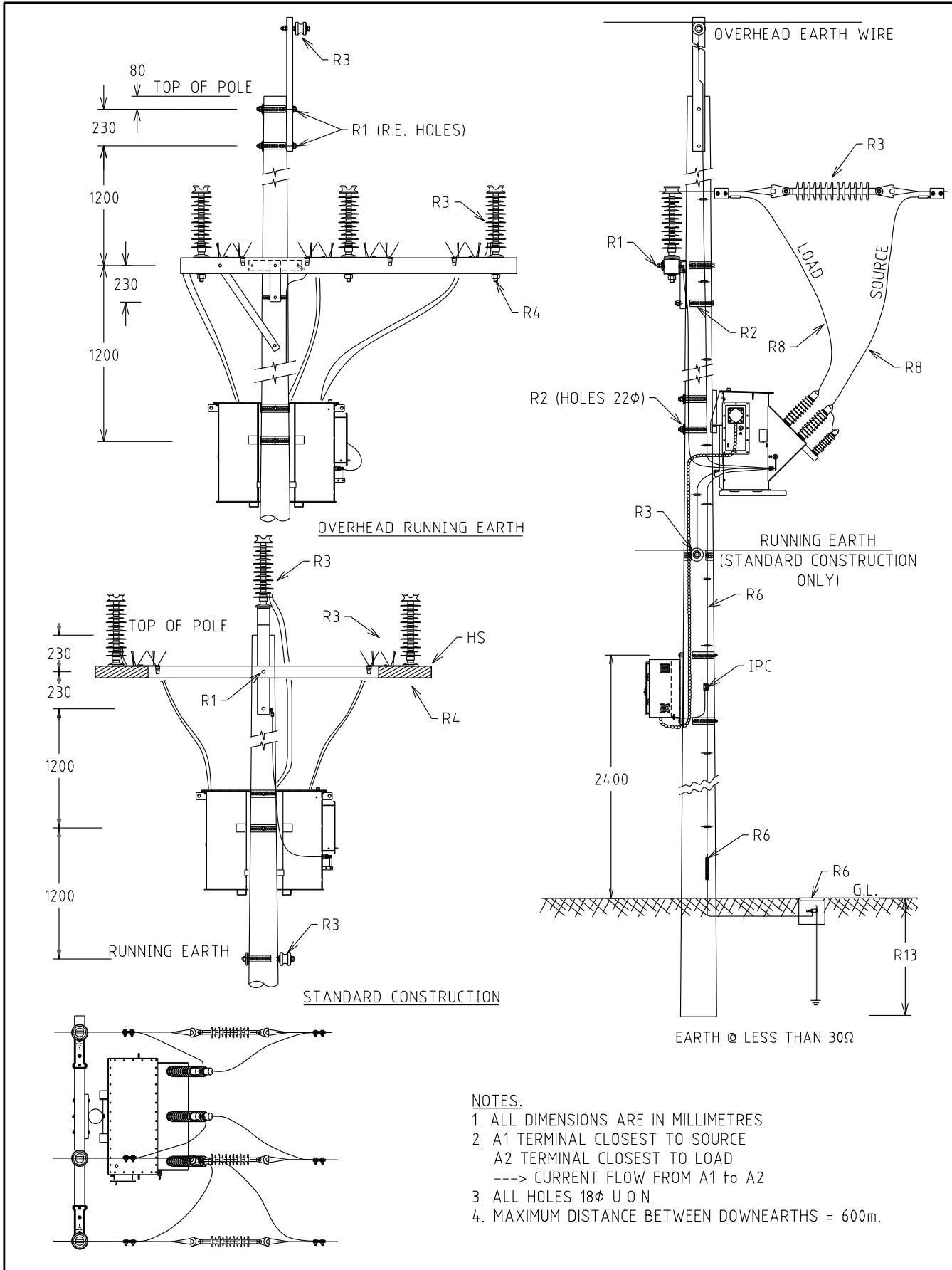
**12.5M 6kN POLE COUNTRY NETWORKS**

**NOTES:**

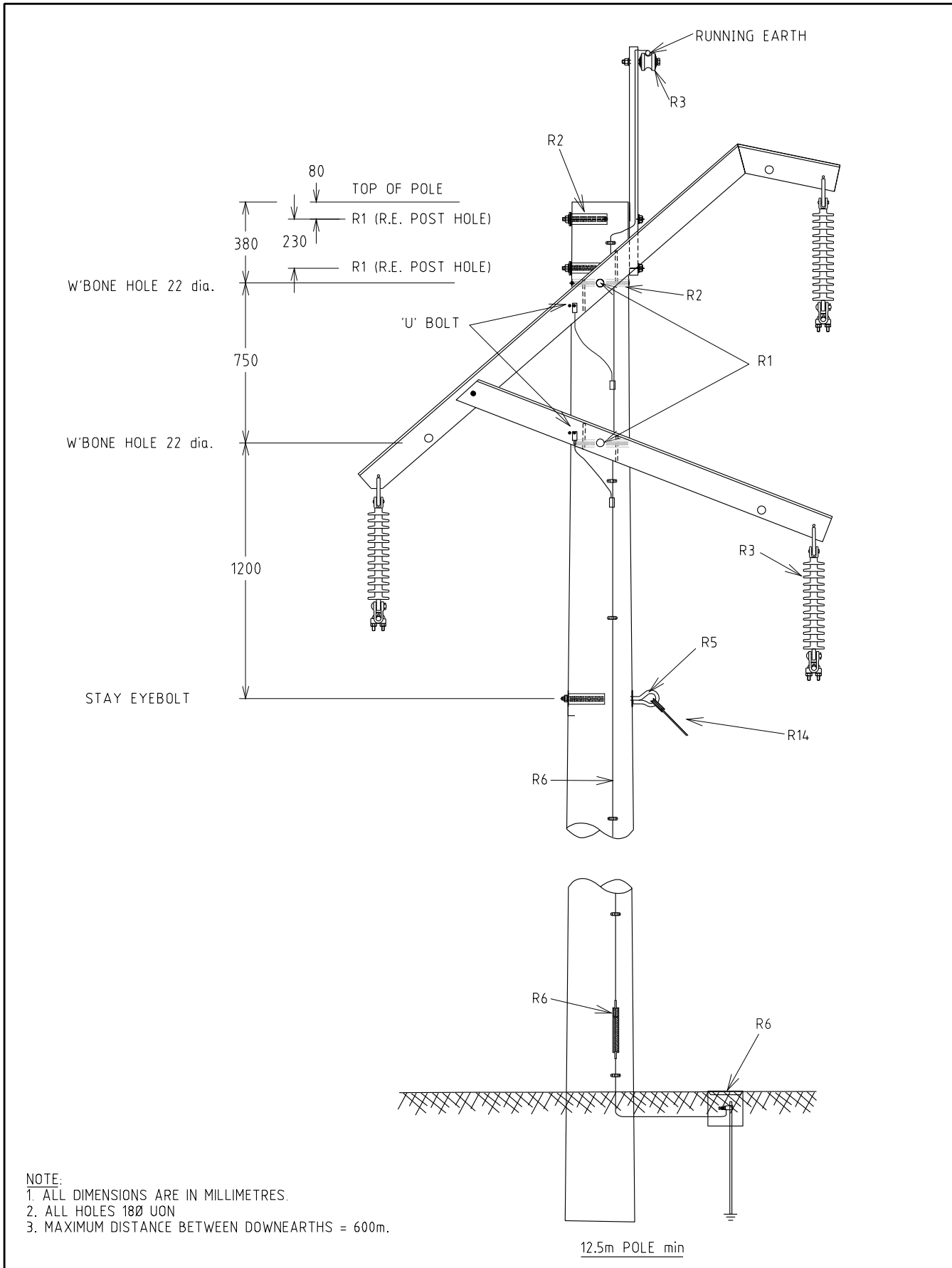
1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18φ U.O.N.
3. MAXIMUM DISTANCE BETWEEN DOWNEARTHS = 600m
4. DO NOT INSTALL DOF ON THE LOAD SIDE IF 1PH RECLOSER IS INSTALLED DOWNSTREAM.
5. PLANNING ENGINEERS TO BE CONSULTED TO DETERMINE FUSE GRADING

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD			
				TITLE			DRAWN: JRR DATE: 20-03-2014 DRG. No.		<b>H20-7</b>	
				<b>ISOLATION TRANSFORMER 3 PH TERMINATION / 1 PH CABLE WITH DROPOUT FUSE</b>			ORIGINATED: SCALE: NTS			
							CHECKED: REE		REV E SH. 1/1	
							APPROVED: GRANT STACY			
REV.	DATE	DESCRIPTION	DRGD.	CHKD.	APRD.					
E	08.12.25	POLE TOP EARTHING ADDED. R5 UPDATED	CO	KT	MM					
D	20.03.14	FORMAT CHANGED			GS					
C	23.05.13	ORIGINAL ISSUE								



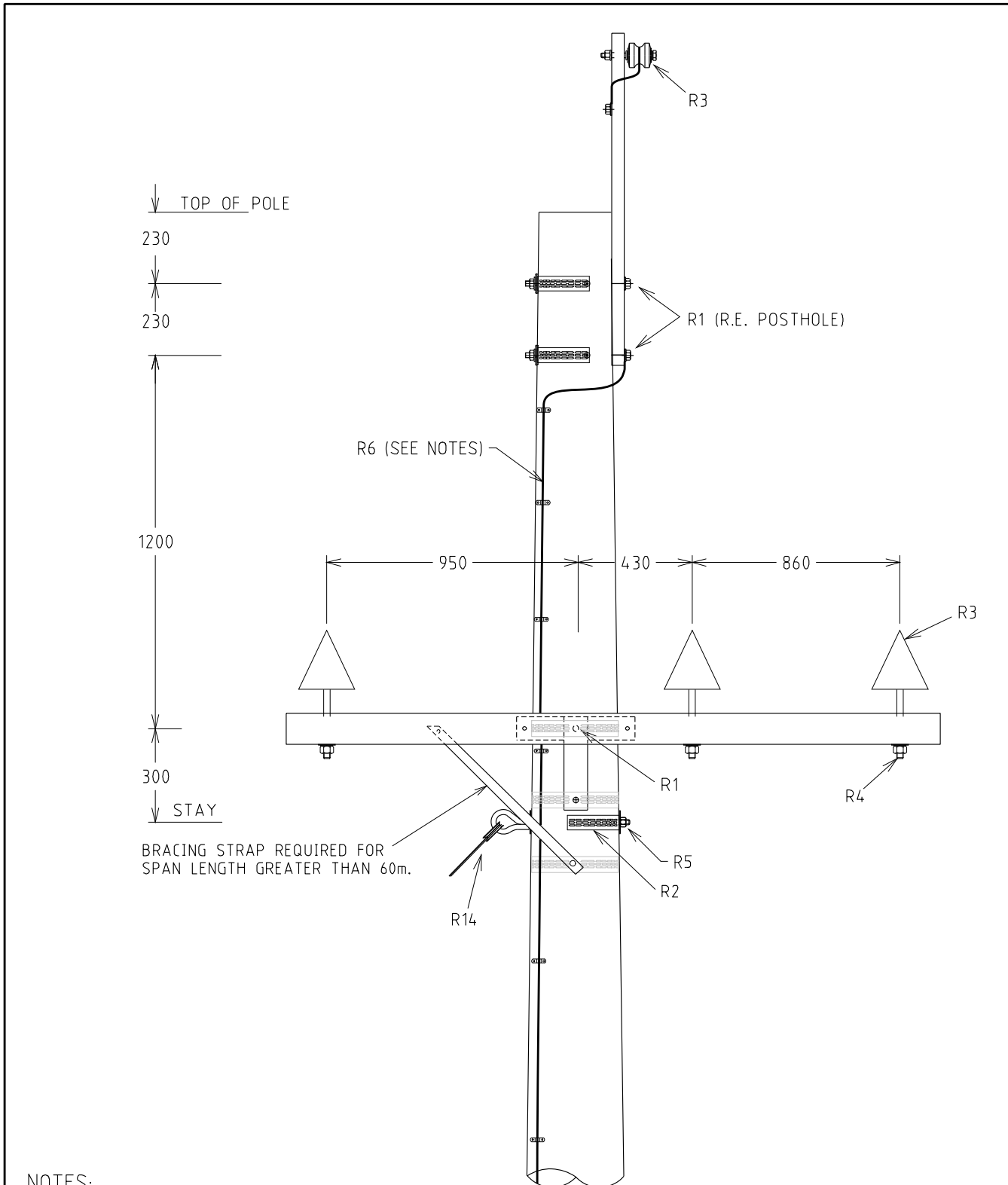


				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower			
				TITLE			DRAWN: JRR		DATE: 20-03-2014		DRG. No.	
E 08.12.25 POLE TOP EARTHING ADDED. R3 UPDATED				CO KT MM			ORIGINATED:		SCALE: NTS		H21	
D 13.05.21 TRANSFORMER TYPE & METERING CUBICLE UPDATED				CO REE GS			CHECKED: REE		APPROVED:		REV E	
C 31.05.16 SPECIFIED THE SOURCE AND LOAD				ME REE GS			APPROVED: GRANT STACY		REV E		SHT. 1/1	
B 20.03.14 FORMAT CHANGED				GS								
REV.	DATE	DESCRIPTION	DRGD.	CHKD.	APRD.							



NOTE:  
 1. ALL DIMENSIONS ARE IN MILLIMETRES.  
 2. ALL HOLES 180° UON  
 3. MAXIMUM DISTANCE BETWEEN DOWNEARTHS = 600m.

				STRUCTURE		DISTRIBUTION CONSTR. STANDARD			
				INTERMEDIATE WISHBONE WITH OVERHEAD EARTHWIRE		DRAWN: JRR DATE: 20-03-2014 DRG. No.		H22	
						ORIGINATED: SCALE: NTS			
						CHECKED: REE		REV. C SHT.	
						APPROVED: GRANT STACY			
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.				
C	11.10.08	EARTHING SYSTEM MODIFIED	REE	JC	GS				
B	29.07.13	ORIGINAL ISSUE							

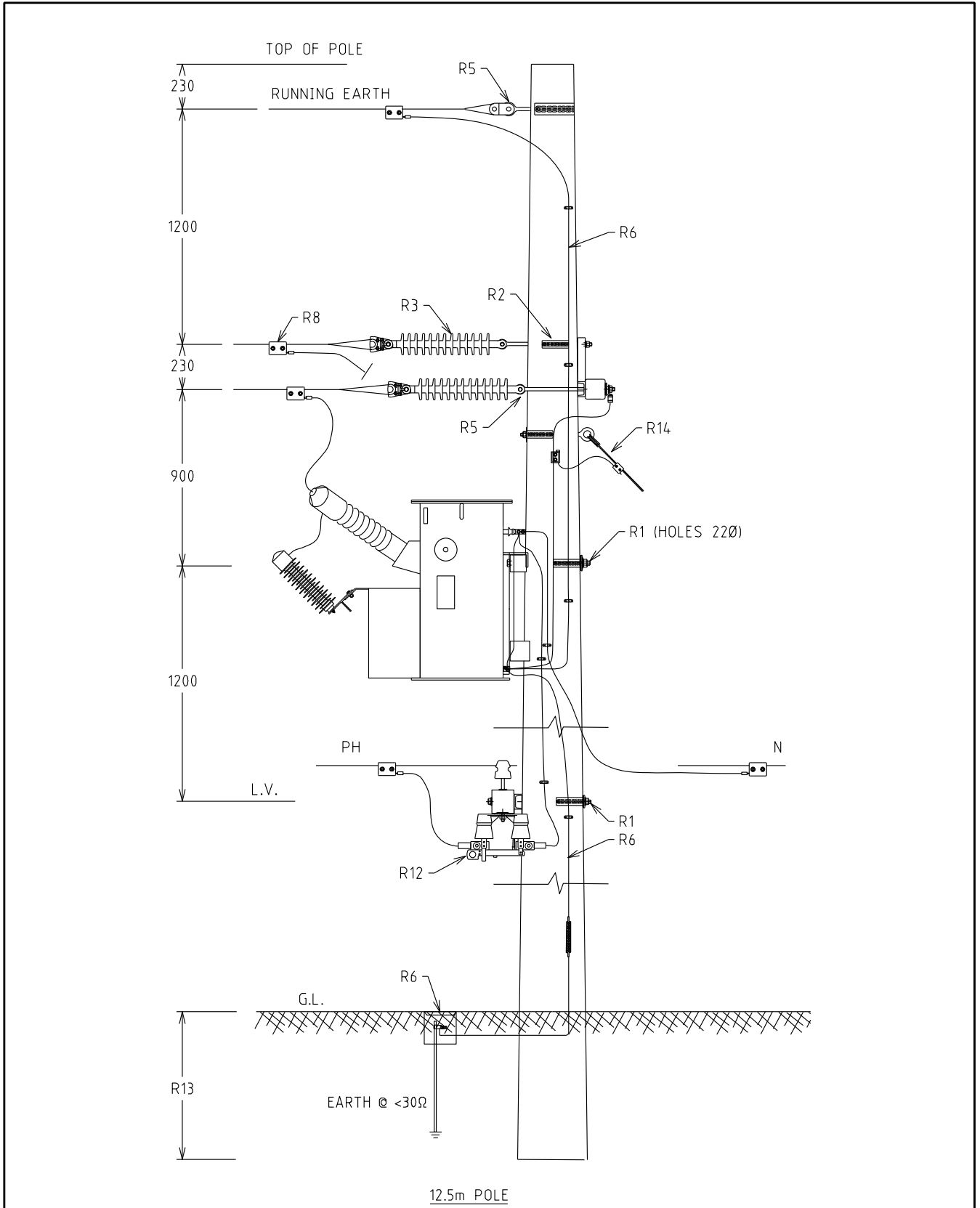


NOTES:

1. ALL HOLES 180 U.O.N.
2. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600m
3. DOWN EARTH APPLIED ON OPPOSITE SIDE OF POLE TO CENTRE PHASE INSULATOR, AS SHOWN.
4. CROSS-ARM BRACING STRAP MAY BE REQUIRED, SEE H3.

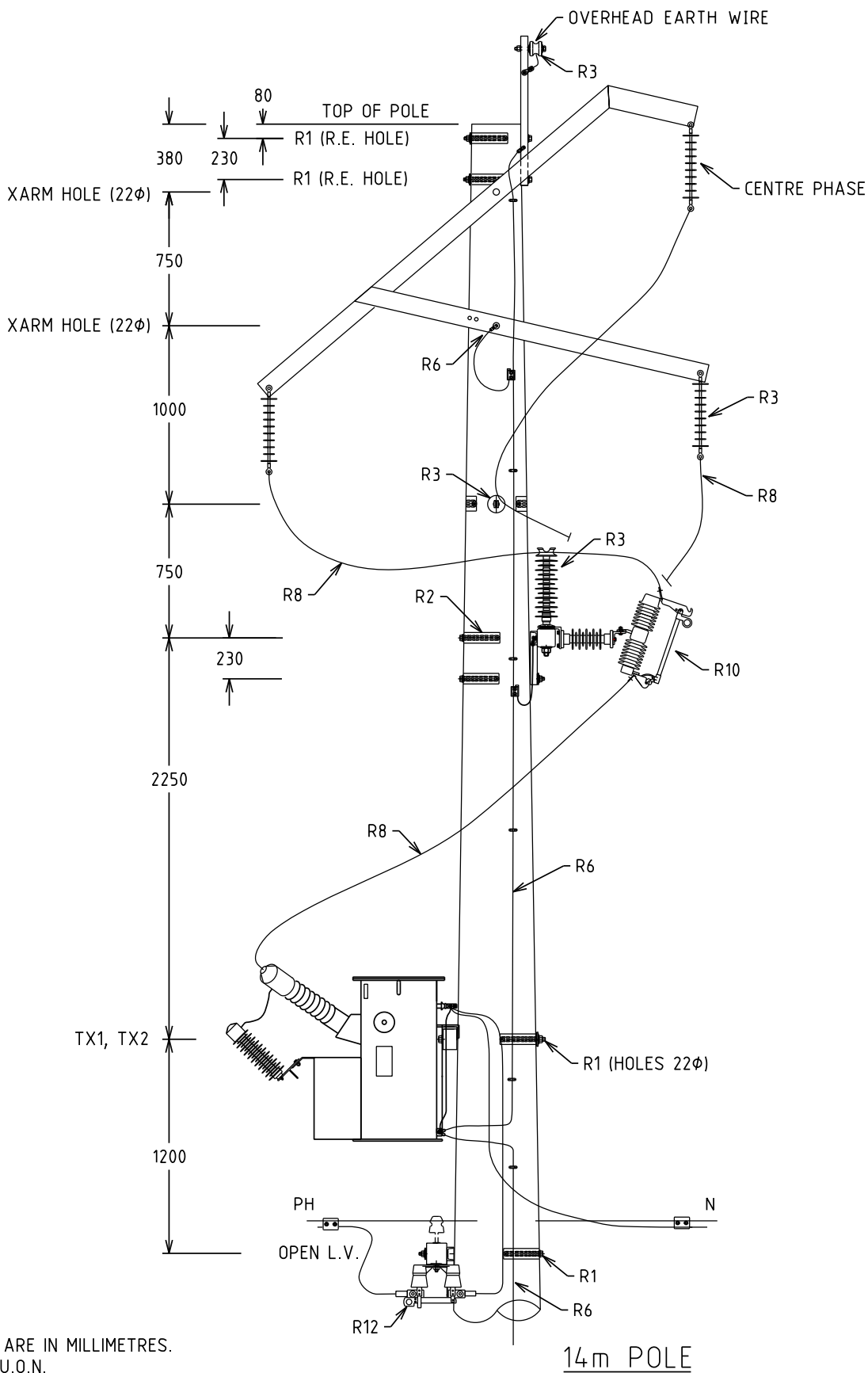
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD					
				TITTLE								
				INTERMEDIATE FLAT CONSTRUCTION WITH OVERHEAD EARTHWIRE								
REV	DATE	ORIGINAL ISSUE	DESCRIPTION	ORGD.	CHKD.	APRD.	DRAWN: JRR	DATE: 20-03-2014	DRG. No.	H23		
C	03.02.17	CHANGED DISTANCE BETWEEN POLE TOP & BOLT HOLE		CO	REE	GS	ORIGINATED:	SCALE: NTS				
B	13.08.14	FORMAT CHANGED AND BRACING STRAP ADDED		JC	REE	GS	CHECKED: REE					
A	03.07.13	ORIGINAL ISSUE					APPROVED: GRANT STACY		REV. C	SHT.		





- NOTES:**  
 1. ALL DIMENSIONS ARE IN MILLIMETRES.  
 2. ALL HOLES 18φ U.O.N.

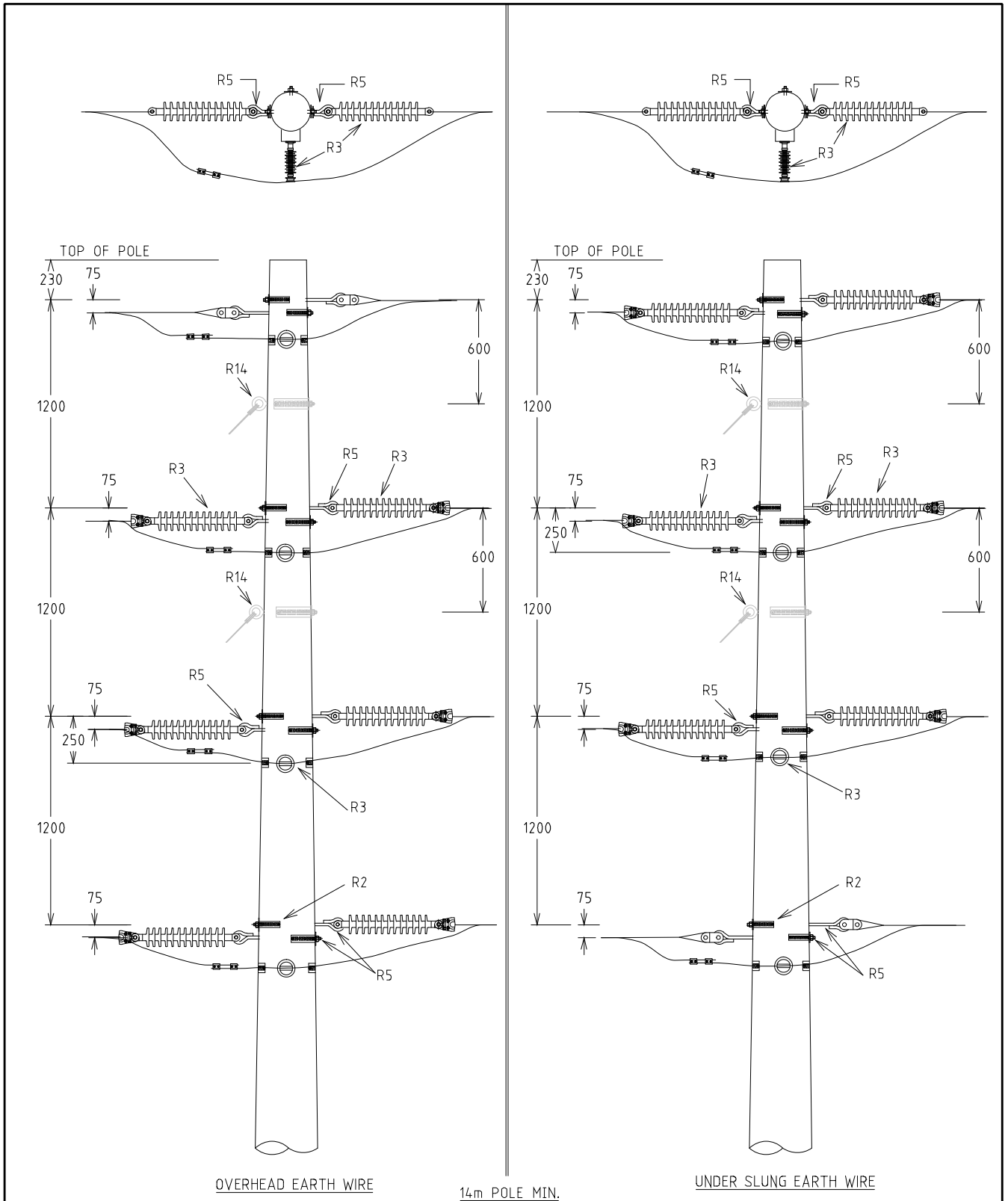
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD			
				TITLE			DRAWN: JRR	DATE: 20-03-2014	DRG. No.	
				<b>TERMINATION TRANSFORMER WITH OVERHEAD EARTHWIRE</b>			ORIGINATED:	SCALE: NTS	<b>H24</b>	
							CHECKED: REE			REV D SHT. 1/1
							APPROVED: GRANT STACY			
REV.	DATE	DESCRIPTION	DRGD.	CHKD.	APRD.					



- NOTES:**  
 1. ALL DIMENSIONS ARE IN MILLIMETRES.  
 2. ALL HOLES 18φ U.O.N.

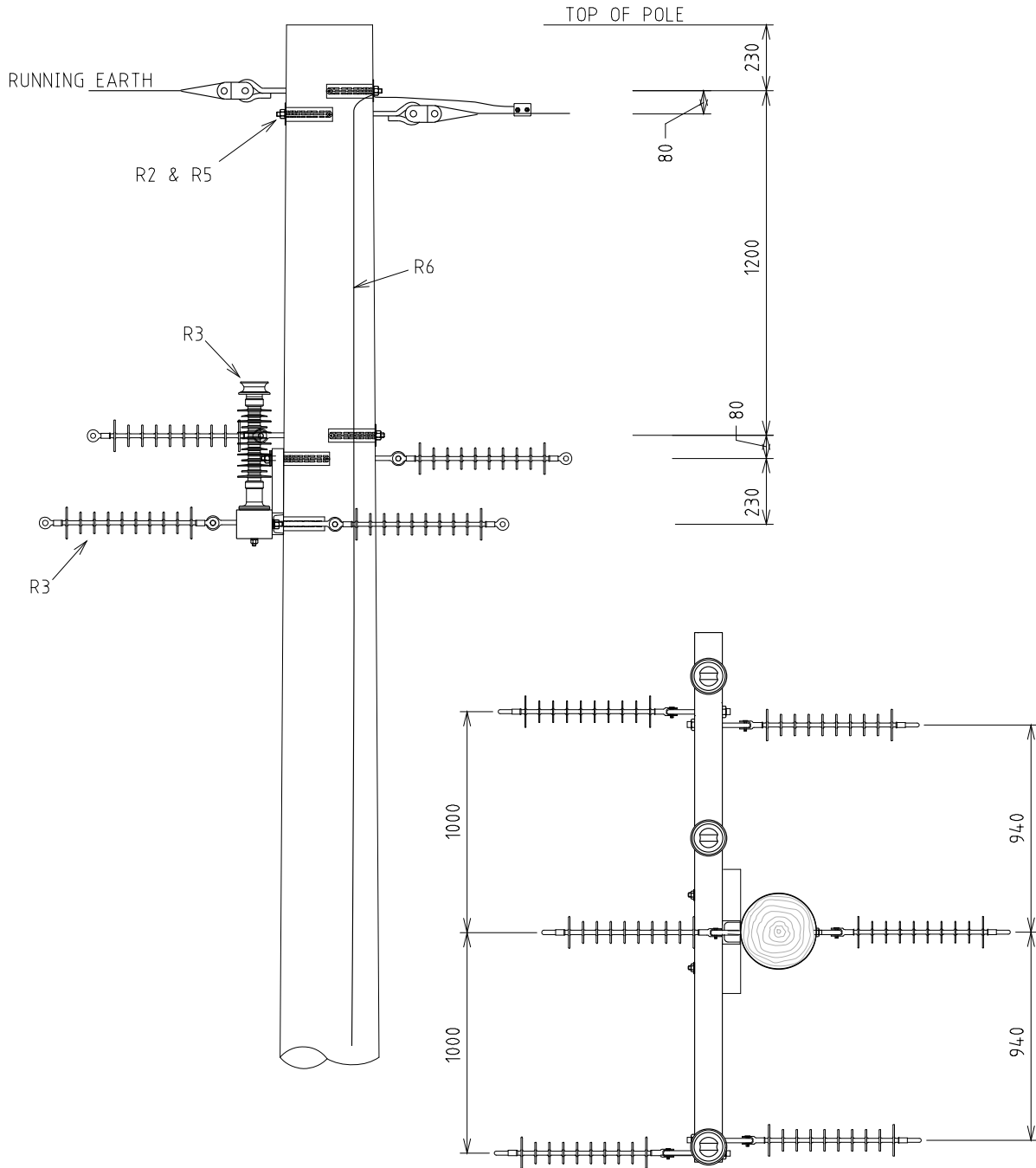
14m POLE

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD			
				INTERMEDIATE TRANSFORMER WISHBONE CONSTRUCTION			DRAWN: JRR DATE: 20-03-2014 ORG. No.		H25	
							ORIGINATED: SCALE: NTS			
							CHECKED: REE		1/1	
							APPROVED: GRANT STACY			
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.					
C	08.12.25	POLE TOP EARTHING ADDED. R3 UPDATED	CO	KT	MM					
B	16.11.18	EARTHING SYSTEM MODIFIED & TX MODEL CHANGED	NMc	NN	GS					
A	20.11.13	ORIGINAL ISSUE								



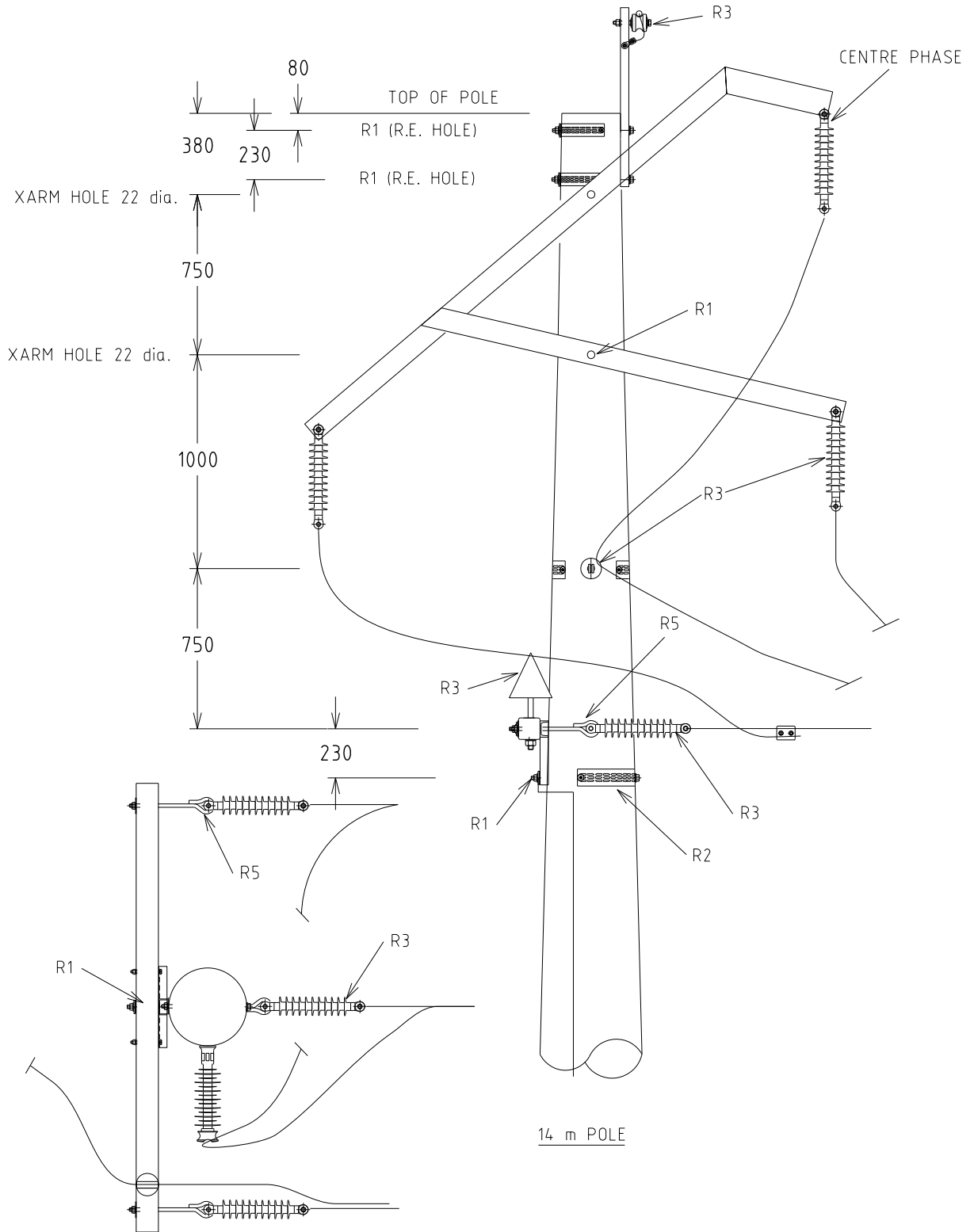
- NOTES:-  
 1. ALL HOLES 18φ U.O.N.  
 2. MAXIMUM DISTANCE BETWEEN DOWNEARTHS = 600m.  
 3. INSTALL STAYS IF REQUIRED.

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower	
				TITLE			DRAWN: JRR DATE: 20-03-2014 DRG. No.		H26-1	
				VERTICAL STRAIN			ORIGINATED: SCALE: NTS			
							CHECKED: FK			
							APPROVED: GRANT STACY		REV. C SHT.	
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.					
C	03.02.17	DRAWING NUMBER CHANGED TO H26-1	CO	RE	GS					
B	15.01.16	EARTHING & STAY SYSTEM MODIFIED AND TITLE REVISED	FK	ME	GS					
A	13.07.00	ORIGINAL ISSUE								



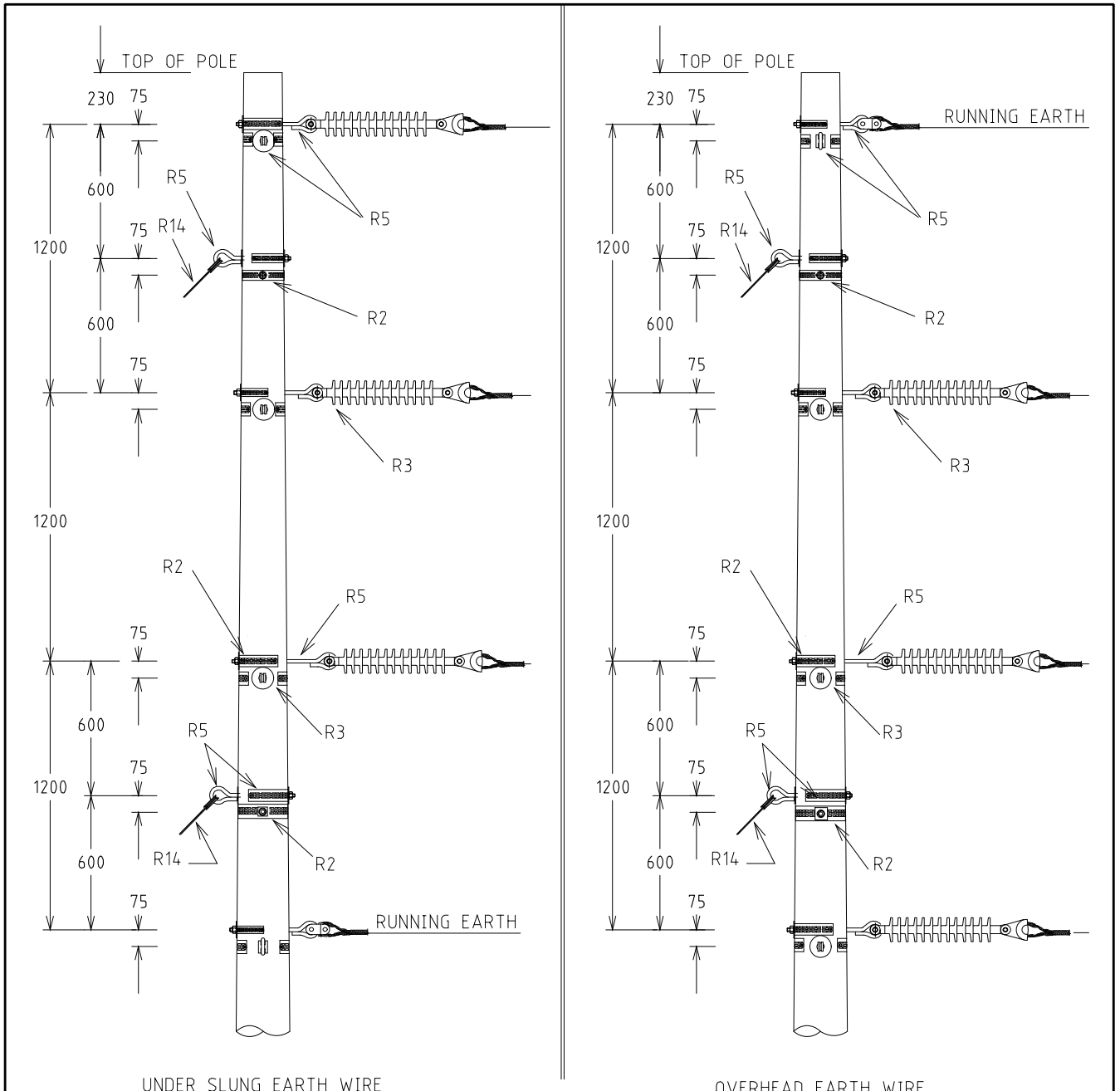
- NOTES:  
 1. ALL DIMENSIONS ARE IN MILLIMETRES.  
 2. ALL HOLES 18Ø U.O.N.  
 3. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600m

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD			
				TITLE			DRAWN: JRR DATE: 01-12-2016		DRG. No.	
				INLINE STRAIN WITH OVER HEAD EARTH WIRE			ORIGINATED: CO SCALE: NTS		H26-2	
							CHECKED: REE			
							APPROVED: GRANT STACY		REV. A SHT.	
A	03.02.17	ORIGINAL ISSUE		CO	REF	GS				
REV	DATE	DESCRIPTION		ORGD.	CHKD.	APRD.				



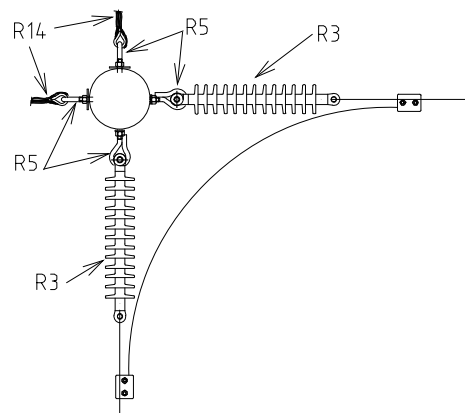
NOTE:-  
 1. ALL HOLES 18DIA U.O.N.  
 2. DOWNEARTH - R6  
 3. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600m

				STRUCTURE		DISTRIBUTION CONSTR. STANDARD			
				WISHBONE CONSTRUCTION WITH TEE-OFF		DRAWN: JRR DATE: 10-03-2014		ORG. No. H27	
				TITLE		ORIGINATED: SCALE: NTS			
				DESCRIPTION		CHECKED: REE		REV. B	
				ORG. CHD. APRD.		APPROVED: GRANT STACY		SHT.	
R. No.	DATE	DESCRIPTION	ORG. CHD.	APRD.					



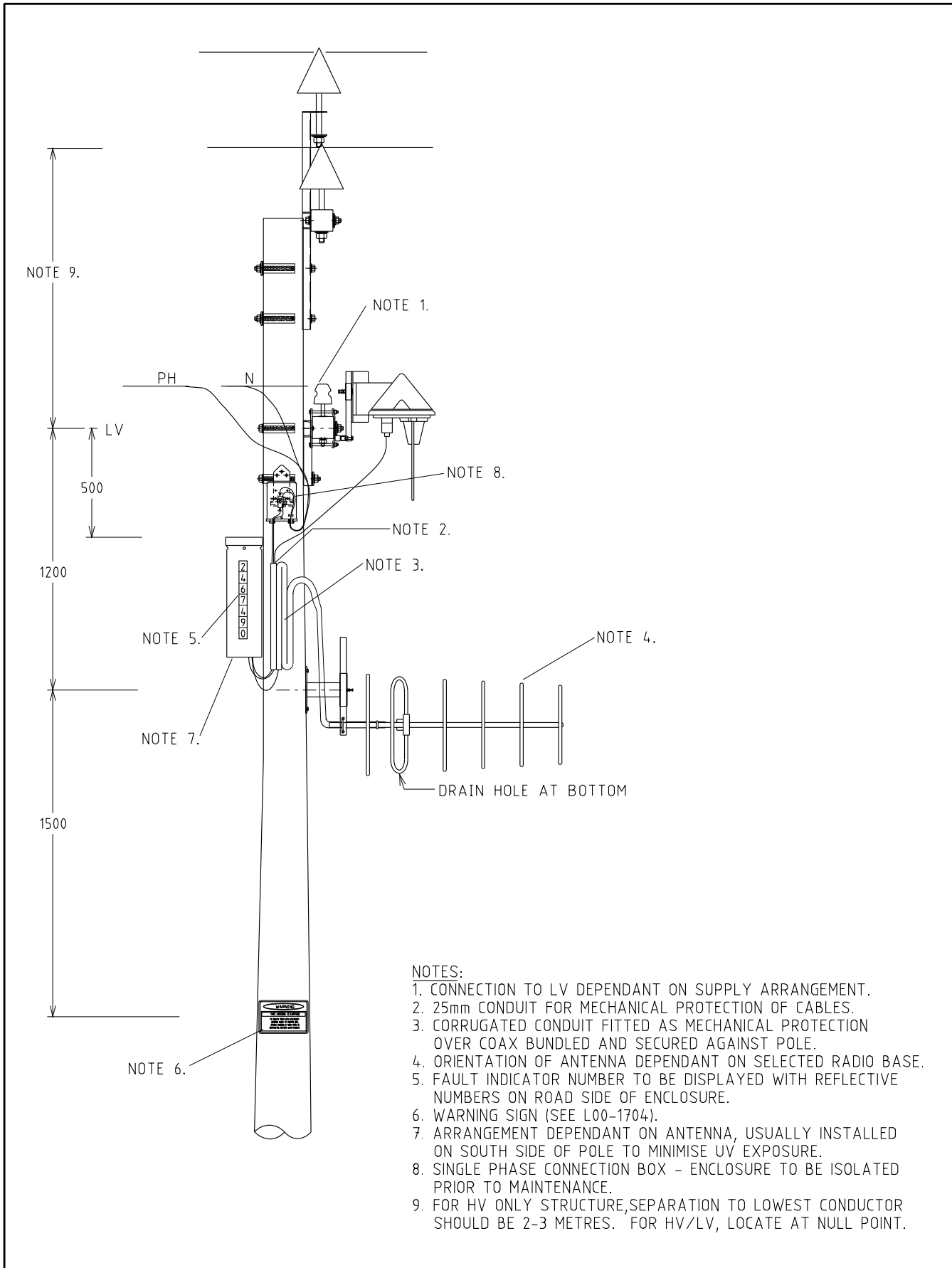
UNDER SLUNG EARTH WIRE

OVERHEAD EARTH WIRE



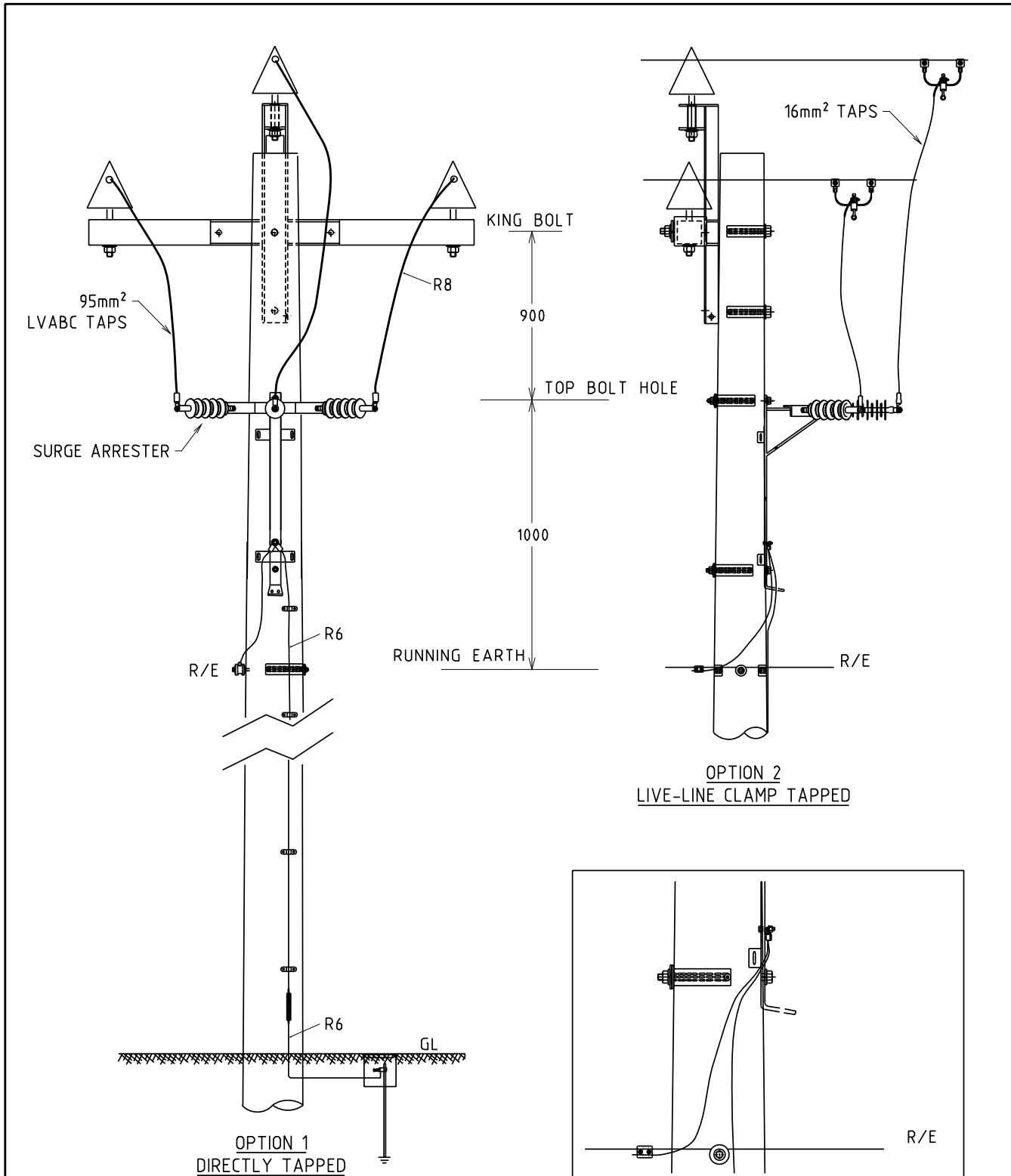
- NOTE:-
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. ALL HOLES 18DIA U.O.N.
  3. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600m

				STRUCTURE		DISTRIBUTION CONSTR. STANDARD		westernpower	
				TITLE		DRAWN: JRR DATE: 20-03-2014 DRG. No.		H28	
				VERTICAL STRAIN ANGLE		ORIGINATED: SCALE: NTS			
						CHECKED: REE			
						APPROVED: GRANT STACY		REV. B SHT.	
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.				
B	30.01.17	TITLE CHANGED & UNDER SLUNG EARTH WIRE ADDED	CO	REE	GS				
A	13.07.00	ORIGINAL ISSUE							



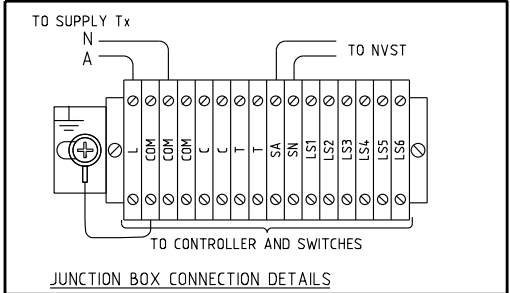
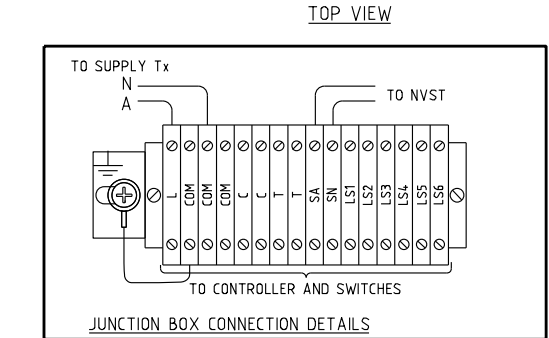
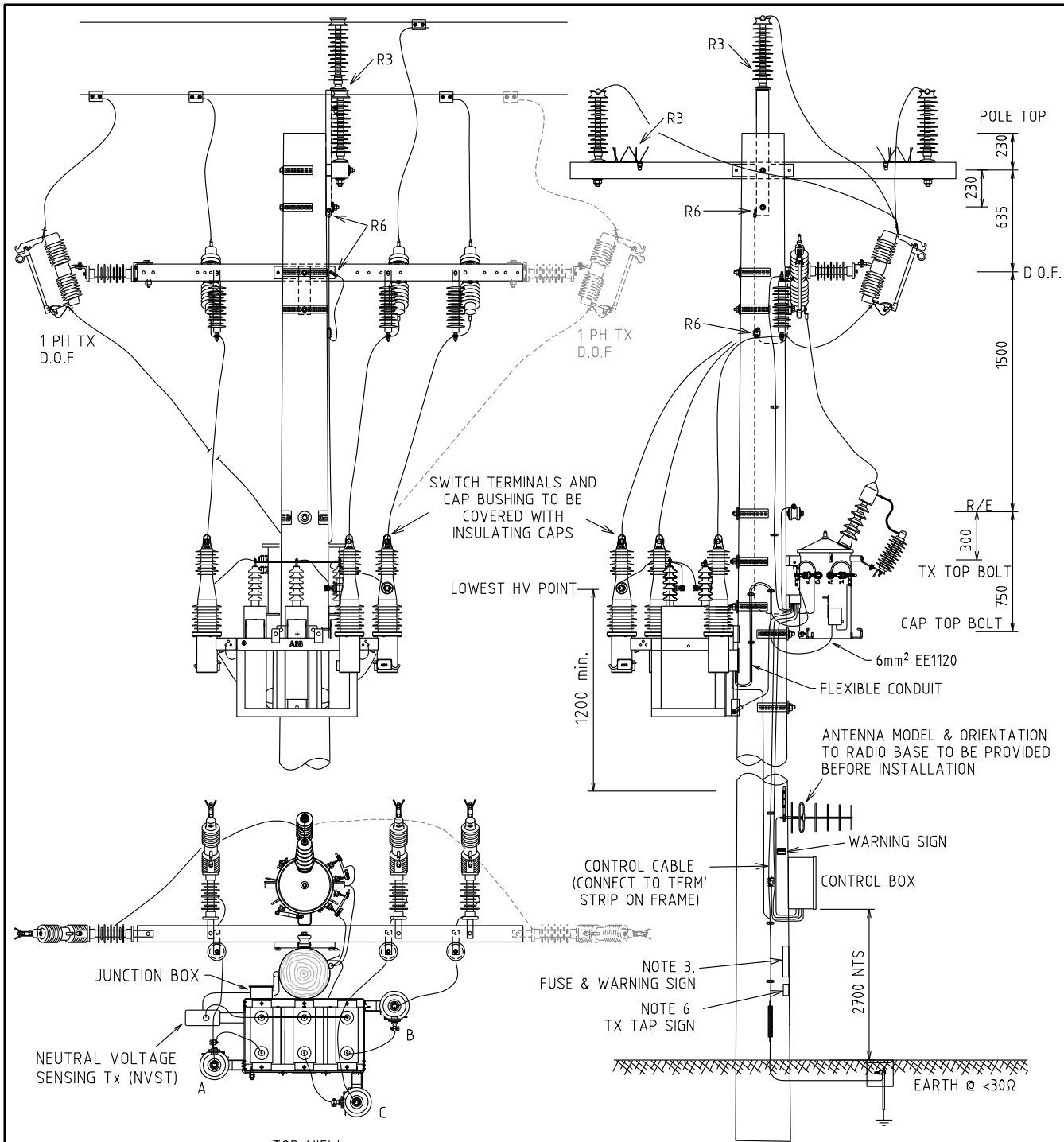
- NOTES:
1. CONNECTION TO LV DEPENDANT ON SUPPLY ARRANGEMENT.
  2. 25mm CONDUIT FOR MECHANICAL PROTECTION OF CABLES.
  3. CORRUGATED CONDUIT FITTED AS MECHANICAL PROTECTION OVER COAX BUNDLED AND SECURED AGAINST POLE.
  4. ORIENTATION OF ANTENNA DEPENDANT ON SELECTED RADIO BASE.
  5. FAULT INDICATOR NUMBER TO BE DISPLAYED WITH REFLECTIVE NUMBERS ON ROAD SIDE OF ENCLOSURE.
  6. WARNING SIGN (SEE L00-1704).
  7. ARRANGEMENT DEPENDANT ON ANTENNA, USUALLY INSTALLED ON SOUTH SIDE OF POLE TO MINIMISE UV EXPOSURE.
  8. SINGLE PHASE CONNECTION BOX - ENCLOSURE TO BE ISOLATED PRIOR TO MAINTENANCE.
  9. FOR HV ONLY STRUCTURE, SEPARATION TO LOWEST CONDUCTOR SHOULD BE 2-3 METRES. FOR HV/LV, LOCATE AT NULL POINT.

				STRUCTURE		DISTRIBUTION CONSTR. STANDARD			
				TITLE		DRAWN: JRR DATE: 20-03-2014 DRG. No.		H29-1	
				FAULT INDICATOR LV AERIAL SUPPLY ARRANGEMENT		ORIGINATED: SCALE: NTS			
						CHECKED: REE		REV. C	
						APPROVED: GRANT STACY			
C	07.09.03	ORIGINAL ISSUE	DESCRIPTION	ORGD.	CHKD.	APRD.			



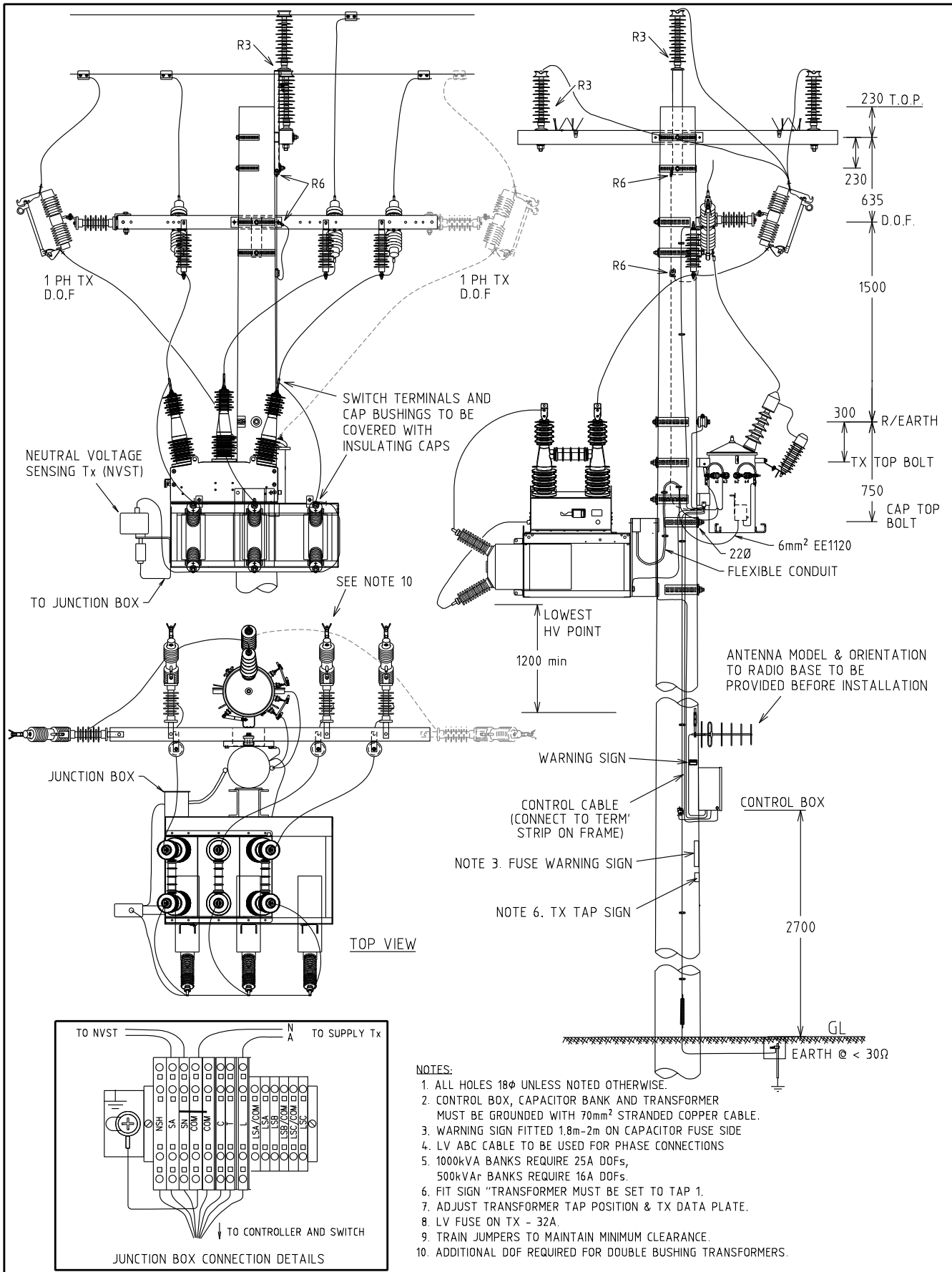
- NOTES:-
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. SELECT SURGE ARRESTER ACCORDING TO NETWORK VOLTAGE AND TO BE SPARK PRODUCTION CLASS-A.
  3. RUNNING EARTH AND DOWN EARTH CONNECTED TO SURGE ARRESTER BRACKET

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower			
				TITLE								
				SURGE ARRESTER STANDARD LINE INSTALLATION							DRAWN: JRR DATE: 20-03-2014 DRG. No.	
											SCALE: NTS	
											H30	
											CHECKED: REE	
											APPROVED: GRANT STACY	
											REV. C	
											SHT.	
REV	DATE	ORIGINAL ISSUE	DESCRIPTION	ORGO	CHKD	APRD						
C	24.02.21	OPTIONS TITLE ADDED		BP	NMc	GS						
B	07.10.11	ORIGINAL ISSUE										



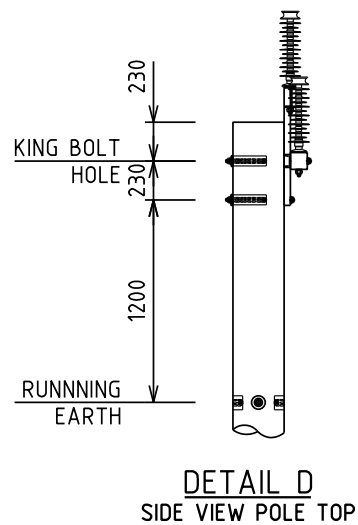
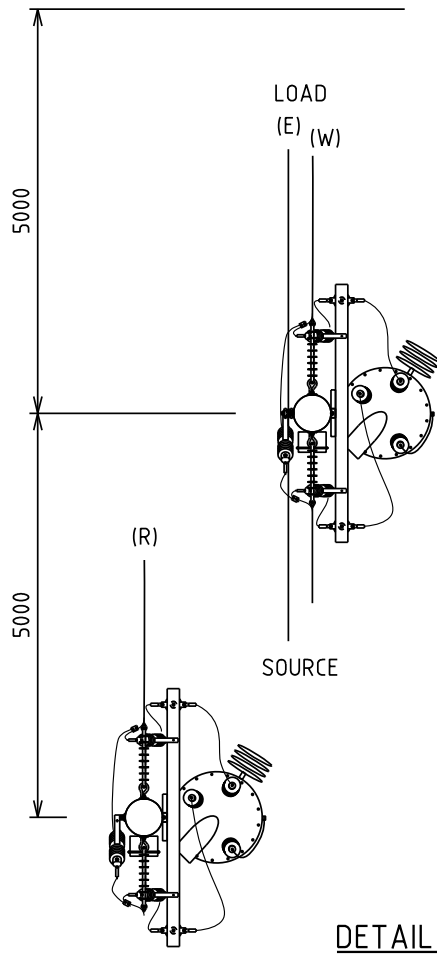
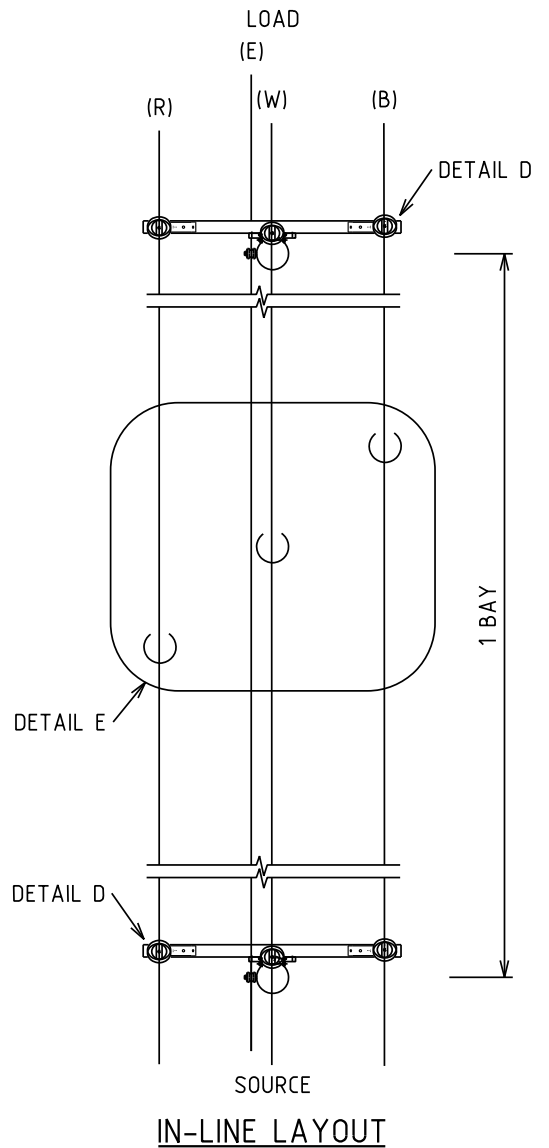
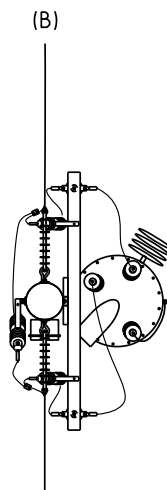
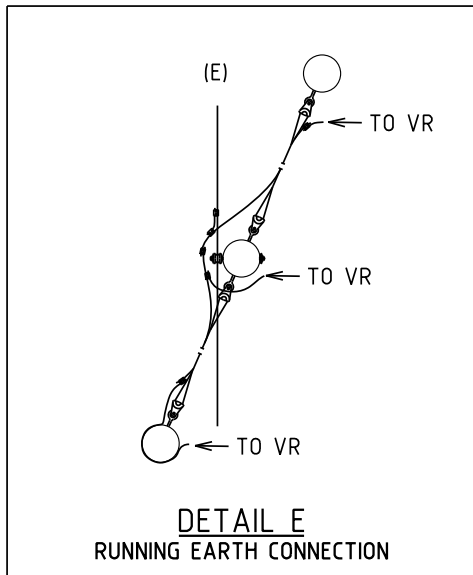
- NOTES:**
1. ALL HOLES 18φ UNLESS NOTED OTHERWISE.
  2. FRAME & CONTROL BOX MUST BE GROUNDED WITH 70mm² STRANDED COPPER CABLE.
  3. WARNING SIGN FITTED 1.8m-2m ON CAPACITOR FUSE SIDE
  4. LV ABC CABLE TO BE USED FOR PHASE CONNECTIONS
  5. 1000kVA BANKS REQUIRE 40A DOFs  
500kVA BANKS REQUIRE 25A DOFs
  6. FIT SIGN "TRANSFORMER MUST BE SET TO TAP 1.
  7. ADJUST TRANSFORMER TAP POSITION & TX DATA PLATE.
  8. LV FUSE ON TX - 32A.
  9. TRAIN JUMPERS TO MAINTAIN MINIMUM CLEARANCE
  10. ADDITIONAL DOF REQUIRED FOR DOUBLE BUSHING TRANSFORMERS.

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD			
				<b>22kV CAPACITOR BANK WITH 10 kVA TRANSFORMER (SINGLE/DOUBLE BUSHING)</b>			DRAWN: JRR DATE: 21-03-2014 DRG. No.		<b>H31</b>	
							ORIGINATED: SCALE: NTS			
							CHECKED: REE APPROVED: GRANT STACY			
REV.	DATE	DESCRIPTION	DRGD.	CHKD.	APRD.			REV	SHT.	1/1



- NOTES:
1. ALL HOLES 18φ UNLESS NOTED OTHERWISE.
  2. CONTROL BOX, CAPACITOR BANK AND TRANSFORMER MUST BE GROUNDED WITH 70mm<sup>2</sup> STRANDED COPPER CABLE.
  3. WARNING SIGN FITTED 1.8m-2m ON CAPACITOR FUSE SIDE
  4. LV ABC CABLE TO BE USED FOR PHASE CONNECTIONS
  5. 1000kVA BANKS REQUIRE 25A DOFs, 500kVAr BANKS REQUIRE 16A DOFs.
  6. FIT SIGN "TRANSFORMER MUST BE SET TO TAP 1.
  7. ADJUST TRANSFORMER TAP POSITION & TX DATA PLATE.
  8. LV FUSE ON TX - 32A.
  9. TRAIN JUMPERS TO MAINTAIN MINIMUM CLEARANCE.
  10. ADDITIONAL DOF REQUIRED FOR DOUBLE BUSHING TRANSFORMERS.

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD				
				TITTLE			DRAWN: JRR DATE: 21-03-2014 DRG. No.		<b>H32</b>		
				<b>33kV CAP BANK WITH SWITCH AND 10kVA OR 25kVA TRANSFORMER (SINGLE/TWO BUSHING) CONNECTION DETAILS</b>			ORIGINATED: SCALE: NTS				
							CHECKED: REE				
							APPROVED: GRANT STACY		REV   SH. 1/1		
REV.	DATE	DESCRIPTION		DRGD.	CHKD.	APRD.					

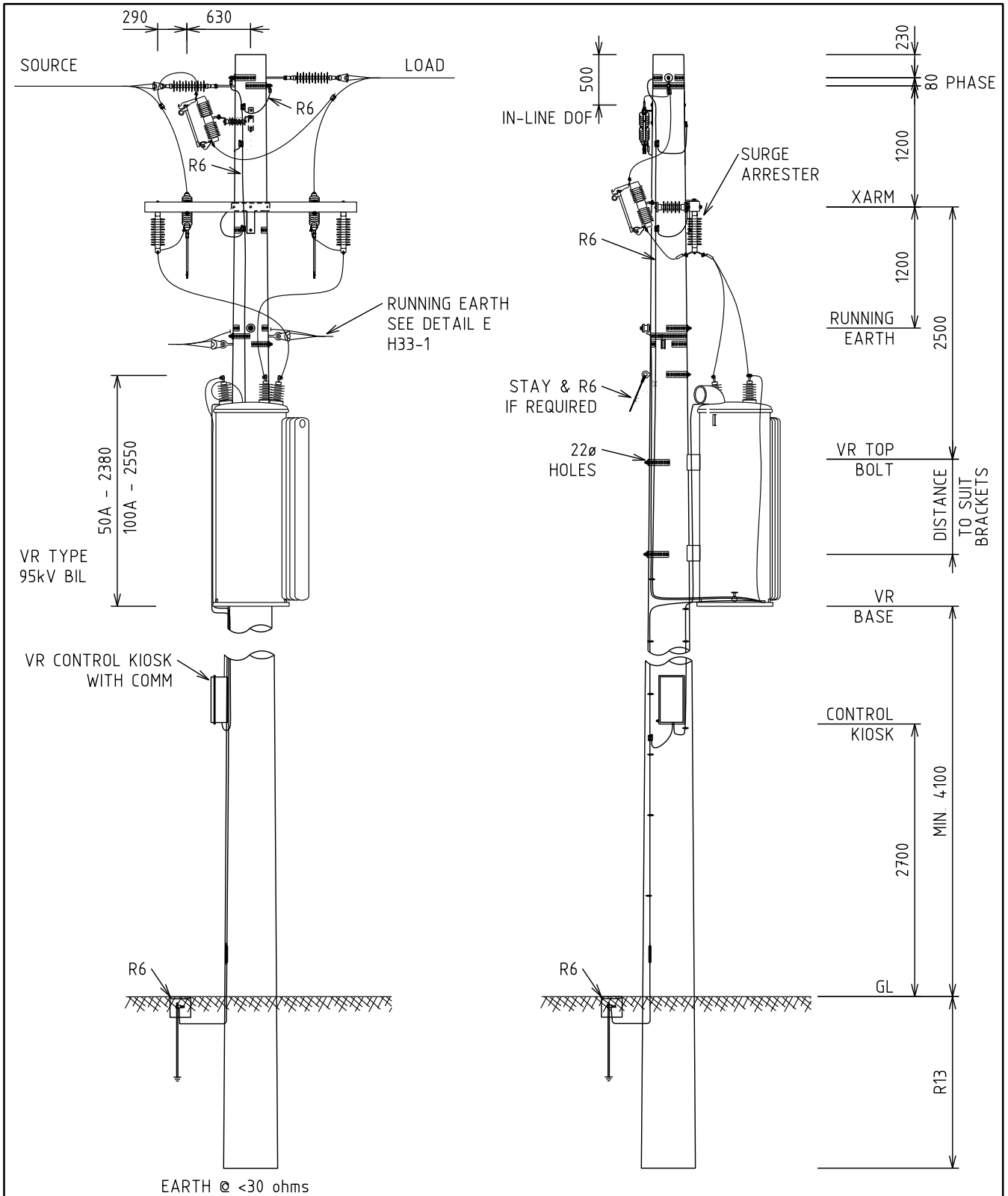


REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.
D	25.05.25	POLE TOP EARTHING ADDED. RE UPDATED	ML	NMc	CO
C	24.03.11	ORIGINAL ISSUE			

TITLE

STRUCTURE  
IN-LINE LAYOUT  
TYPE GE VR-1 50A-100A  
DETAILS

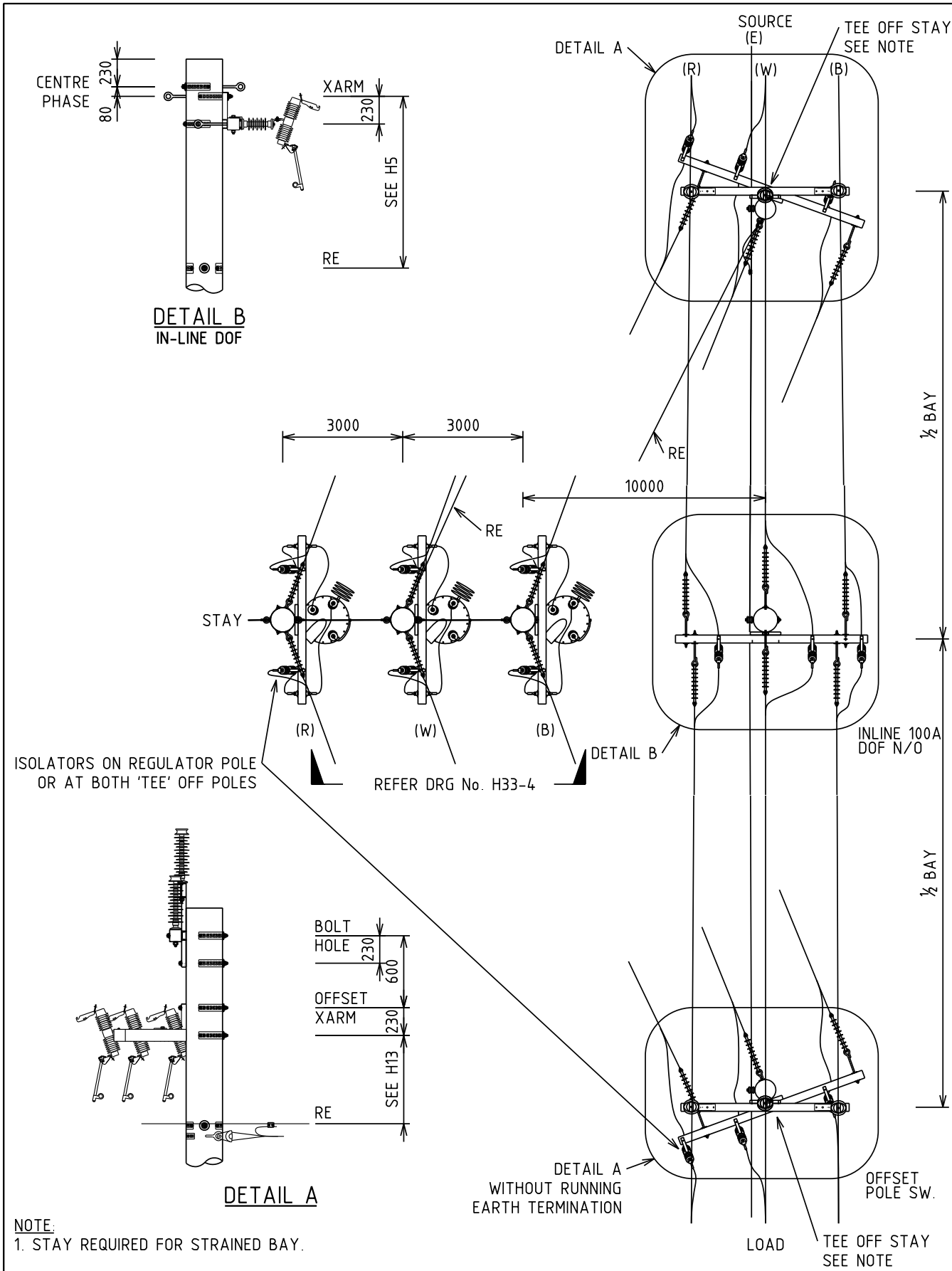
DISTRIBUTION CONSTR. STANDARD			
DRAWN: JRR	DATE: 20-03-2014	DRG. No.	
ORIGINATED:	SCALE: NTS	H33-1	
CHECKED: REE	APPROVED: GRANT STACY	REV. D	SHT. 1/1



**NOTES:**

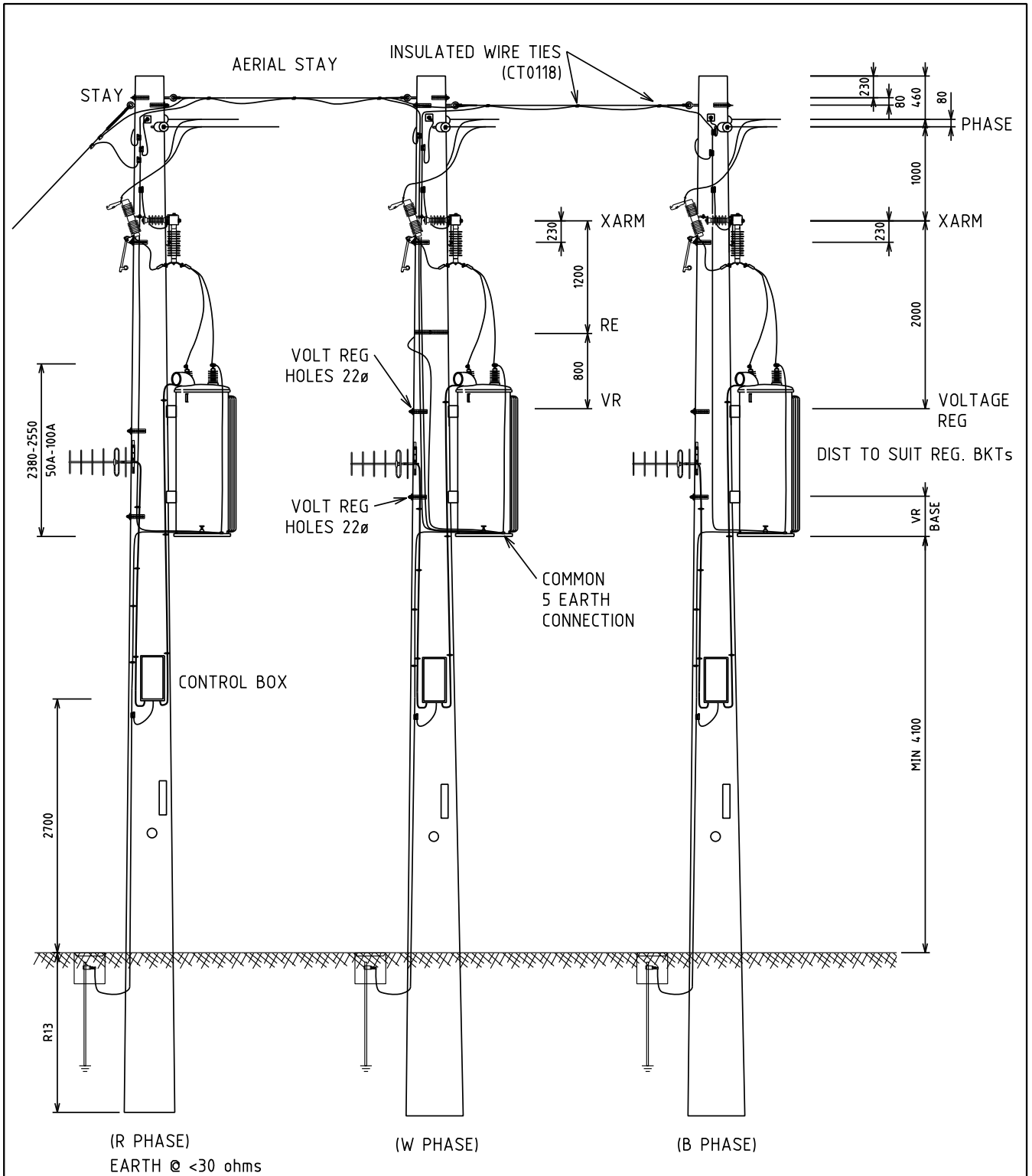
1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18Ø U.O.N.
3. MIN. 6kN POLE
4. LOCAL/SOIL CONDITIONS MAY REQUIRE STAYS
5. EARTH CONNECTION REQUIRED BETWEEN VR POLES.

				STRUCTURE		DISTRIBUTION CONSTR. STANDARD			
				IN-LINE DETAIL		DRAWN: JRR		DATE: 21-03-2014	
				TYPE GE VR-1 50A-100A		ORIGINATED:		SCALE: NTS	
				CONSTRUCTION DETAIL		CHECKED: REE		H33-2	
						APPROVED: GRANT STACY		REV. D	
								SHT. 1/1	



NOTE:  
1. STAY REQUIRED FOR STRAINED BAY.

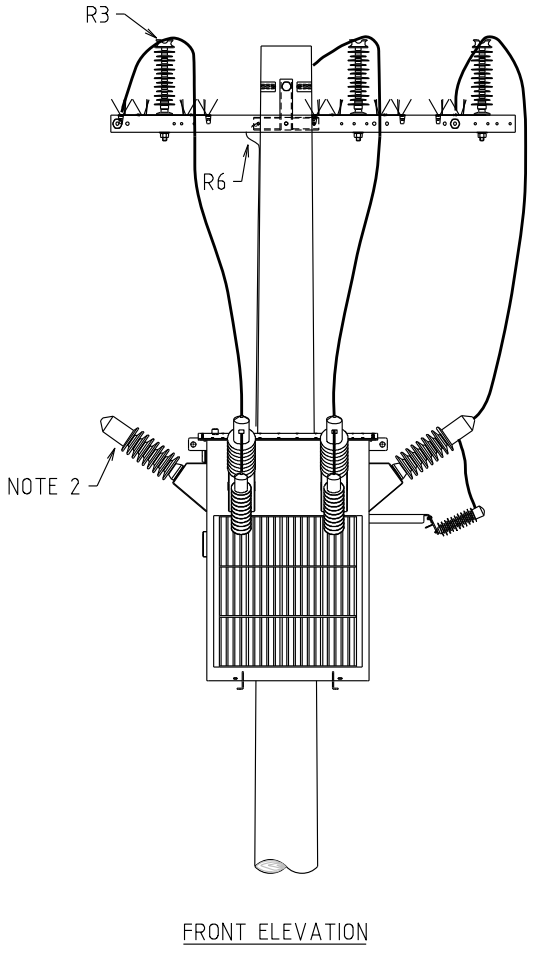
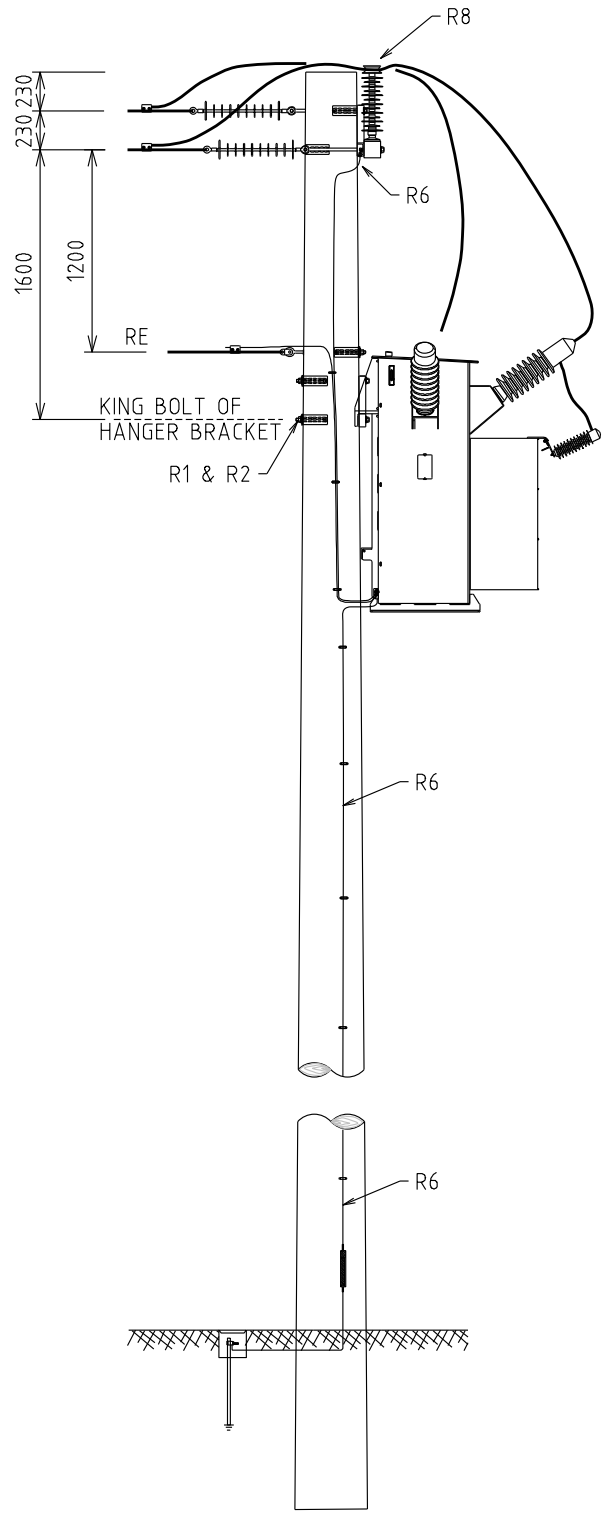
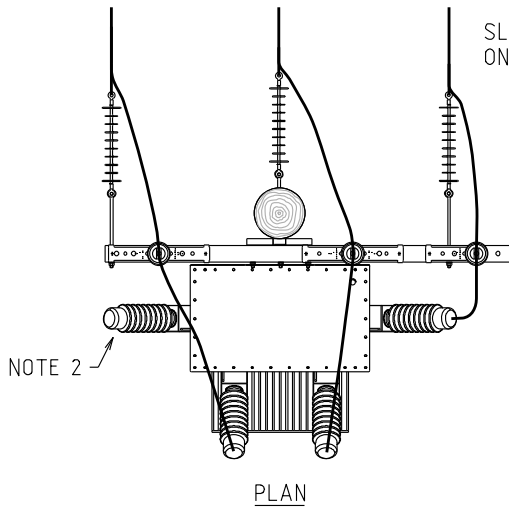
				TITLE		DISTRIBUTION CONSTR. STANDARD		westernpower	
				STRUCTURE		DRAWN: JRR		DATE: 21-03-2014	
				OFF-SET DETAIL		ORIGINATED: REE		SCALE: NTS	
				TYPE GE VR-1 50A-100A		CHECKED: REE		DRG. No. H33-3	
				ARRANGEMENT		APPROVED: GRANT STACY		REV. B	
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.			SHT.	1/1
B	25.05.26	POLE TOP EARTHING ADDED. RE UPDATED	ML	NMc	CO				
A	22.05.05	ORIGINAL ISSUE							



**NOTES:**

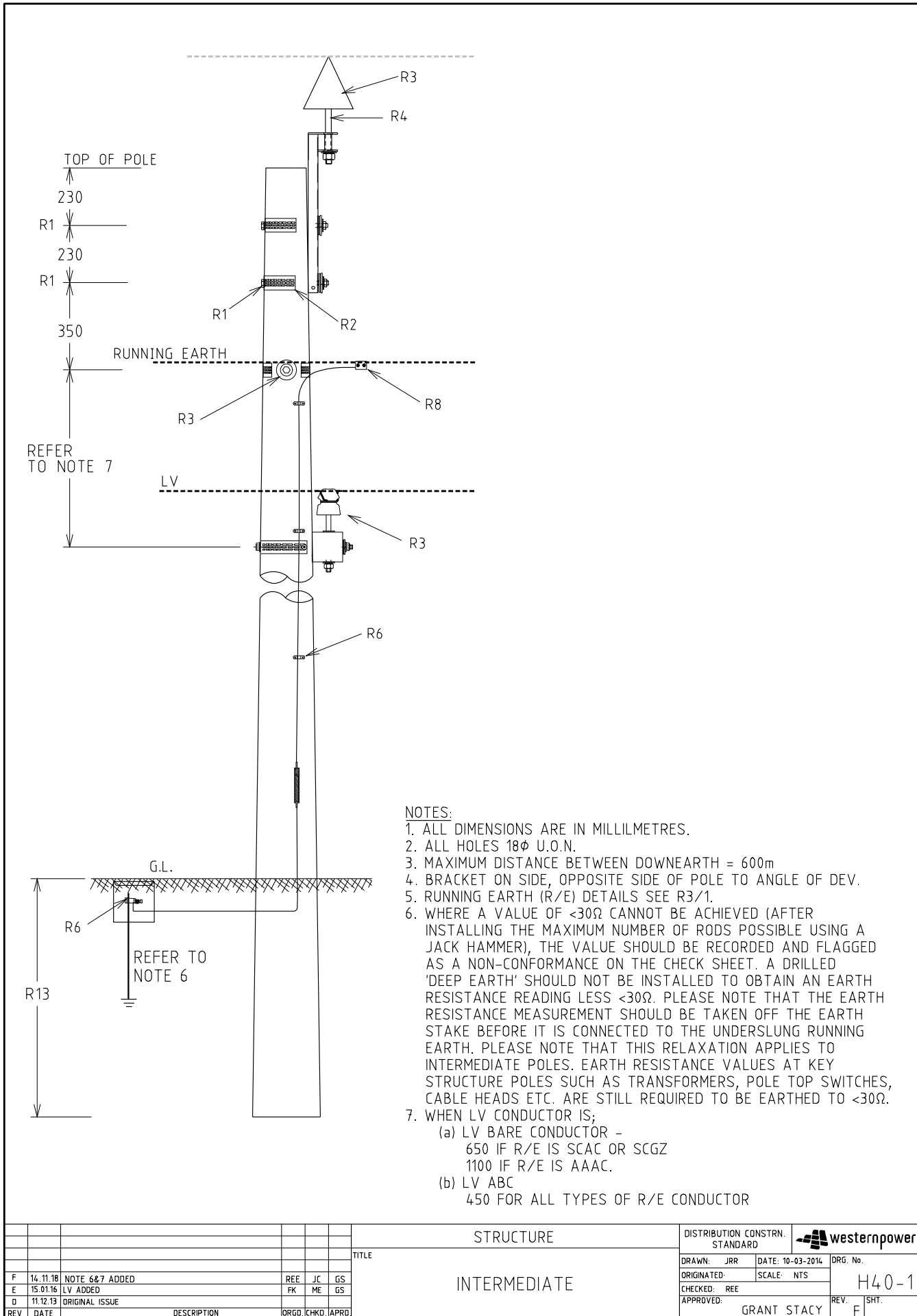
1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18Ø U.O.N.
3. MIN. 6kN POLE.
4. LOCAL/SOIL CONDITIONS MAY REQUIRE STAYS.
5. EARTH CONNECTION REQUIRED BETWEEN VR POLES.
6. ISOLATORS ON REGULATOR POLE OR AT BOTH "TEE" OFF POLES

				STRUCTURE		DISTRIBUTION CONSTR. STANDARD			
				OFF-SET DETAIL		DRAWN: JRR		DATE: 21-03-2014	
				TYPE GE VR-1 50A-100A		ORIGINATED:		SCALE: NTS	
				CONSTRUCTION DETAIL		CHECKED: REE		H33-4	
						APPROVED: GRANT STACY		REV. B	
								SHT. 1/1	



NOTES:  
 1. ALL DIMENSIONS ARE IN MILLIMETRES.  
 2. NEUTRAL TERMINAL NOT CONNECTED.

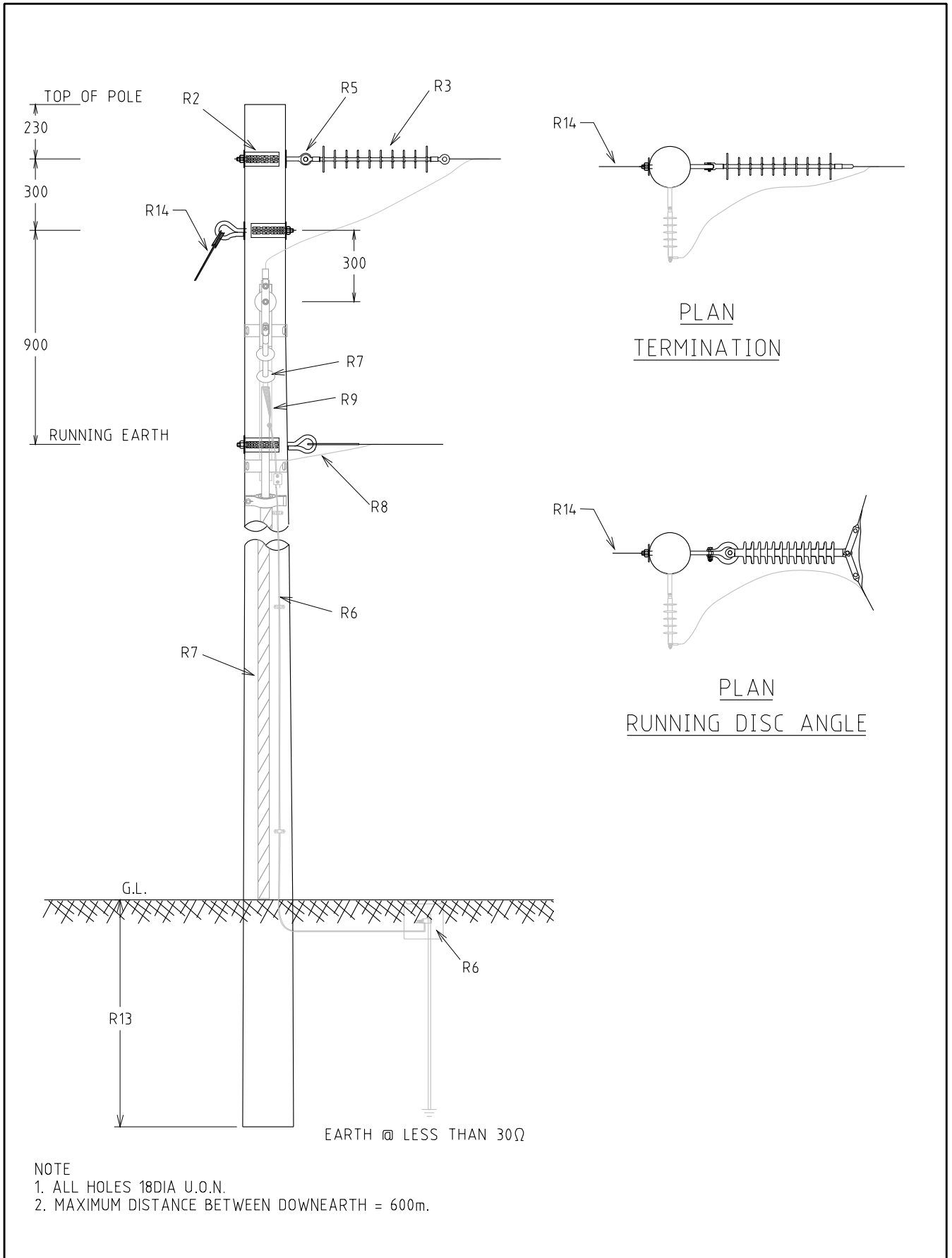
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD				
				TITLE			DRAWN: JRR		DATE: 05-11-2019		
				SHUNT REACTOR			ORIGINATED: NMc		SCALE: NTS		
							CHECKED: CO		APPROVED: GRANT STACY		
							REV B		SHT. 1/1		
REV.	DATE	DESCRIPTION	DRGD.	CHKD.	APRD.						
B	08.12.25	POLE TOP EARTHING ADDED. R3 UPDATED	CO	KT	MM					H34	
A	08.11.19	ORIGINAL ISSUE	NMc	CO	GS						



- NOTES:
1. ALL DIMENSIONS ARE IN MILLILMETRES.
  2. ALL HOLES 18φ U.O.N.
  3. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600m
  4. BRACKET ON SIDE, OPPOSITE SIDE OF POLE TO ANGLE OF DEV.
  5. RUNNING EARTH (R/E) DETAILS SEE R3/1.
  6. WHERE A VALUE OF <math><30\Omega</math> CANNOT BE ACHIEVED (AFTER INSTALLING THE MAXIMUM NUMBER OF RODS POSSIBLE USING A JACK HAMMER), THE VALUE SHOULD BE RECORDED AND FLAGGED AS A NON-CONFORMANCE ON THE CHECK SHEET. A DRILLED 'DEEP EARTH' SHOULD NOT BE INSTALLED TO OBTAIN AN EARTH RESISTANCE READING LESS <math><30\Omega</math>. PLEASE NOTE THAT THE EARTH RESISTANCE MEASUREMENT SHOULD BE TAKEN OFF THE EARTH STAKE BEFORE IT IS CONNECTED TO THE UNDERSLUNG RUNNING EARTH. PLEASE NOTE THAT THIS RELAXATION APPLIES TO INTERMEDIATE POLES. EARTH RESISTANCE VALUES AT KEY STRUCTURE POLES SUCH AS TRANSFORMERS, POLE TOP SWITCHES, CABLE HEADS ETC. ARE STILL REQUIRED TO BE EARTHED TO <math><30\Omega</math>.
  7. WHEN LV CONDUCTOR IS;
    - (a) LV BARE CONDUCTOR -
      - 650 IF R/E IS SCAC OR SCGZ
      - 1100 IF R/E IS AAAC.
    - (b) LV ABC
      - 450 FOR ALL TYPES OF R/E CONDUCTOR

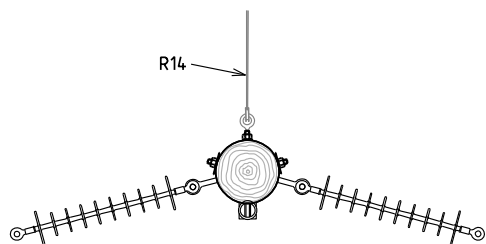
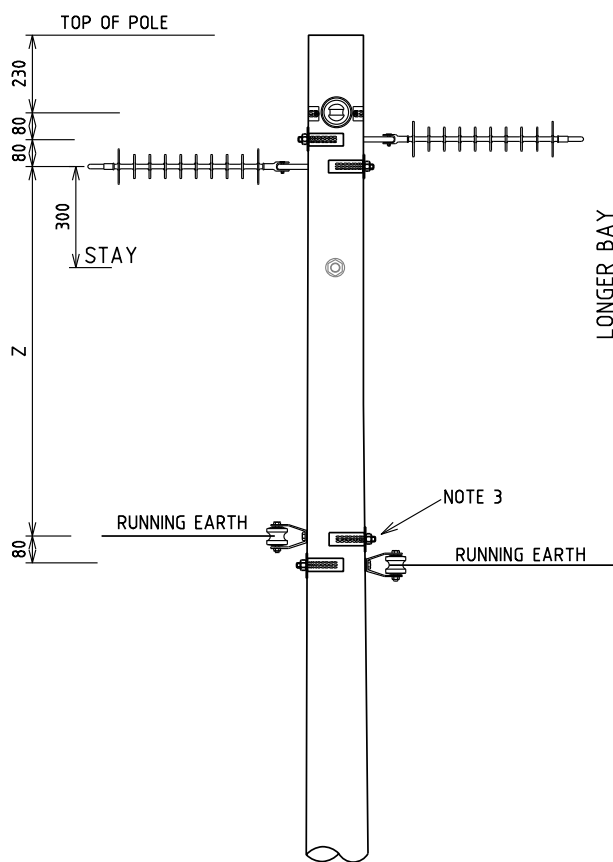
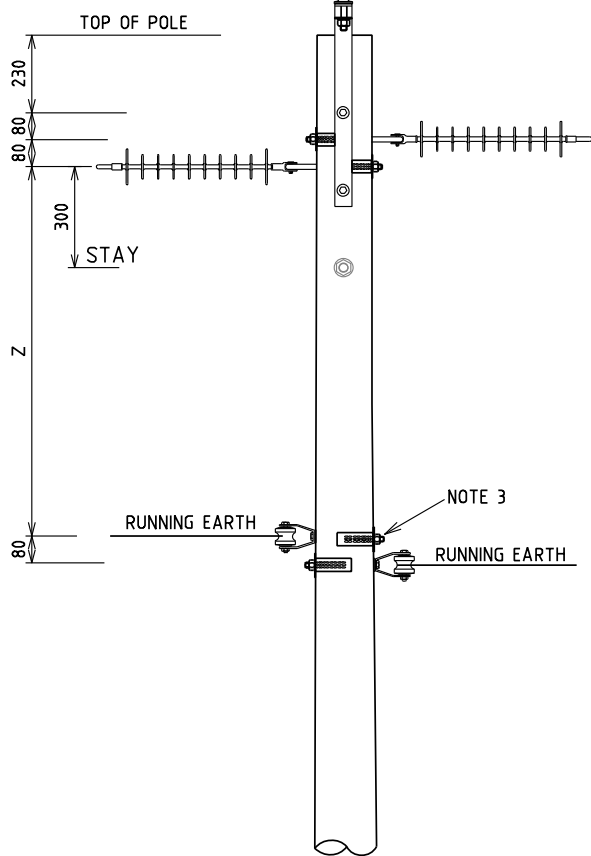
				STRUCTURE		DISTRIBUTION CONSTR. STANDARD		westernpower	
				INTERMEDIATE		DRAWN: JRR DATE: 10-03-2014 DRG. No.		H40-1	
						ORIGINATED: SCALE: NTS			
						CHECKED: REE			
						APPROVED: GRANT STACY		REV. F SHT.	
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.				
F	14.11.18	NOTE 6&7 ADDED		REE	JC	GS			
E	15.01.16	LV ADDED		FK	ME	GS			
D	11.12.13	ORIGINAL ISSUE							



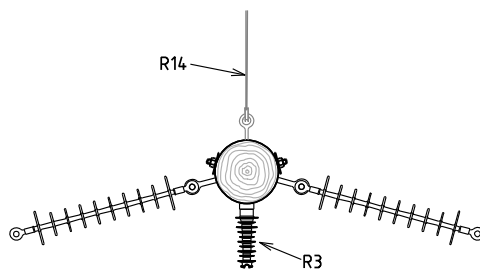


				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower	
				TITLE			DRAWN: JRR		DATE: 21-03-2014	
				RUNNING DISC OR TERMINATION WITH/WITHOUT CABLE TERMINATION			ORIGINATED: REE		SCALE: NTS	
							CHECKED: REE		APPROVED: GRANT STACY	
							APPROVED: GRANT STACY		REV. B	
									DRG. No. H41-1	
									SHT. B	
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.					
B	09.05.16	CABLE TERMINATION ADDED AND TITLE CHANGED	FK	CO	GS					
A	10.10.13	ORIGINAL ISSUE								

TAP OVER OR TAP AROUND



PLAN

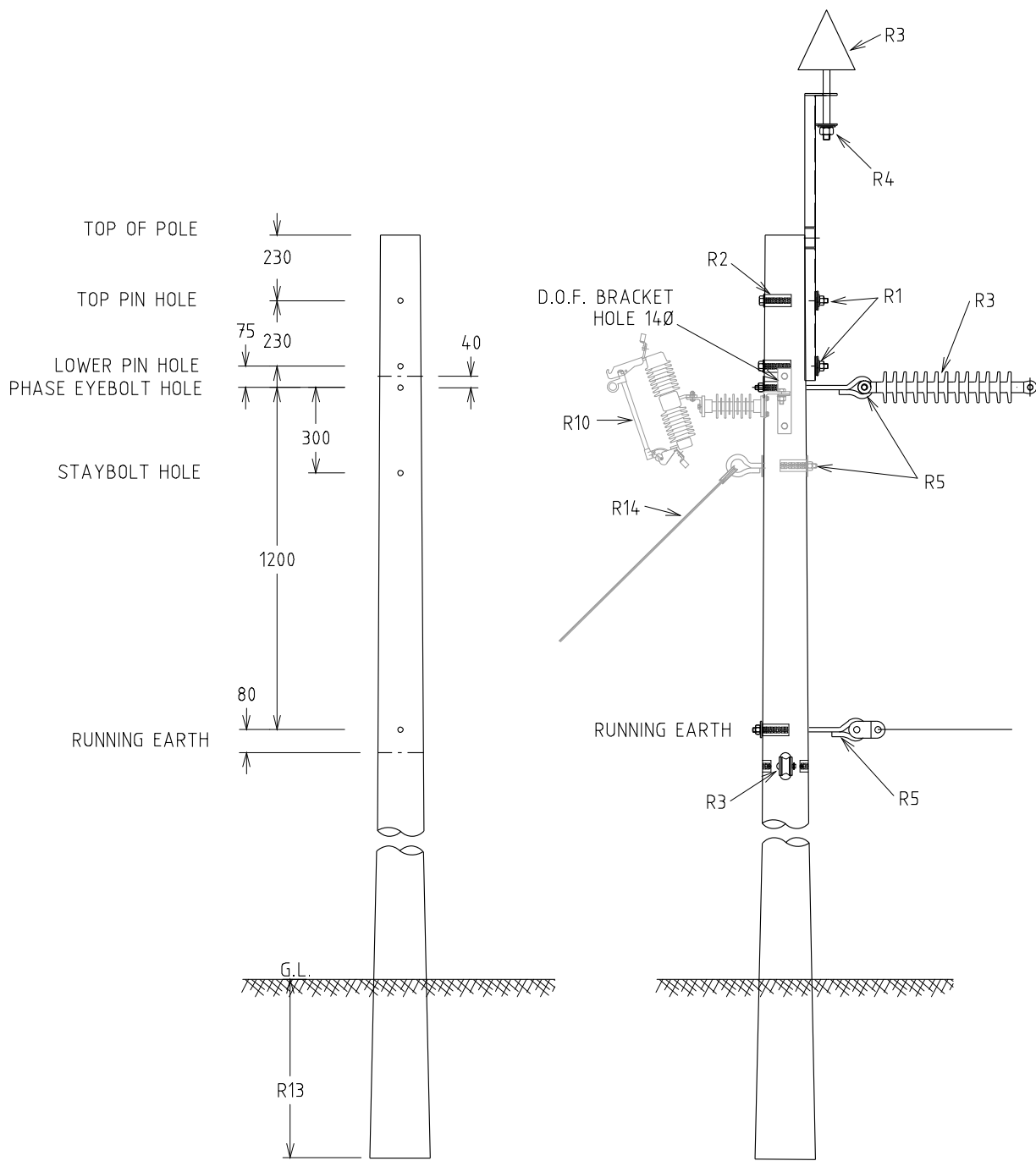


PLAN

- NOTES:-  
 1. ALL DIMENSIONS ARE IN MILLIMETRES.  
 2. ALL HOLES 18Ø U.O.N.  
 3. ALTERNATIVE INTERMEDIATE RUNNING EARTH CAN BE USED IF DEVIATION IS <math>< 2^\circ</math> AND ATTACHED AT THE HIGHER POSITION.

SPAN	Z
UP TO 250m	1200
400m	2000

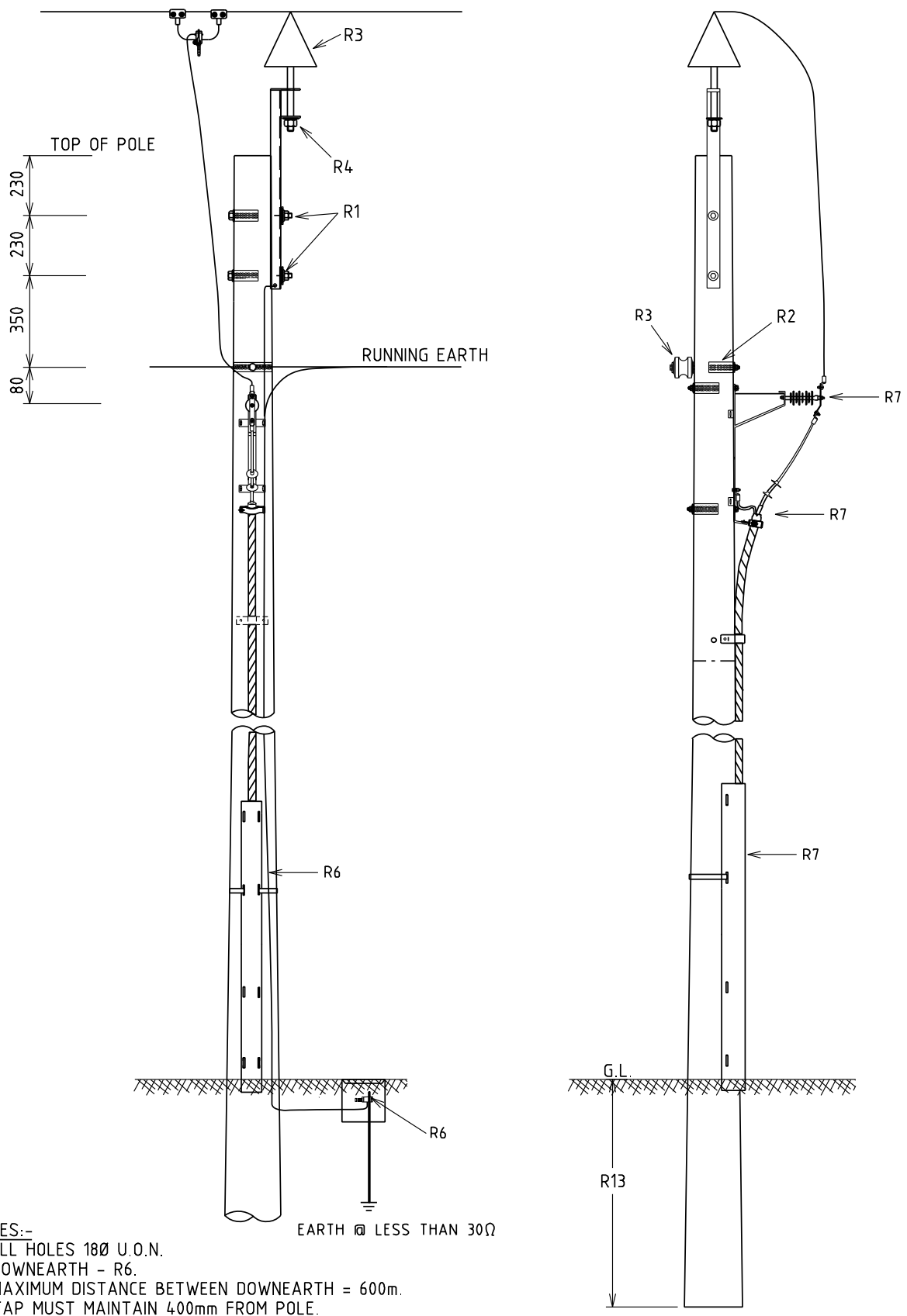
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower	
				TITLE			DRAWN: JRR		DATE: 21-03-2014	
				SINGLE PHASE STRAIN ANGLE			ORIGINATED:		SCALE: NTS	
							CHECKED: REE		H41-2	
							APPROVED: GRANT STACY		REV. D	
REV	DATE	DESCRIPTION	ORGO	CHKD	APRD			SHT.		



NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18Ø U.N.O.
3. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600m.
4. USE RUNNING EARTH INTERMEDIATE ANGLE, IF DEVIATION IS >2°.
5. USE CROSSARM STRAP (CB0485) IF DEVIATION IS >10°.
6. FOR TWO PHASE CONSTRUCTION, POSITION CONDUCTORS ON EITHER END OF CROSSARM.

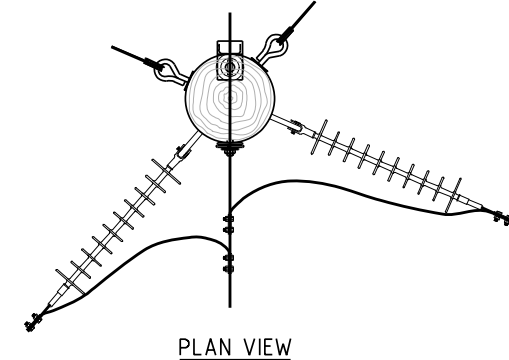
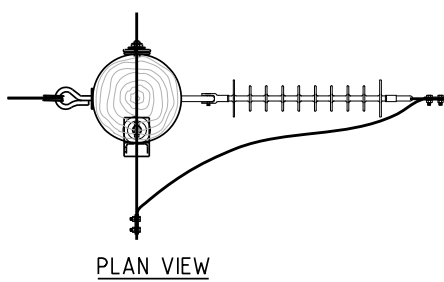
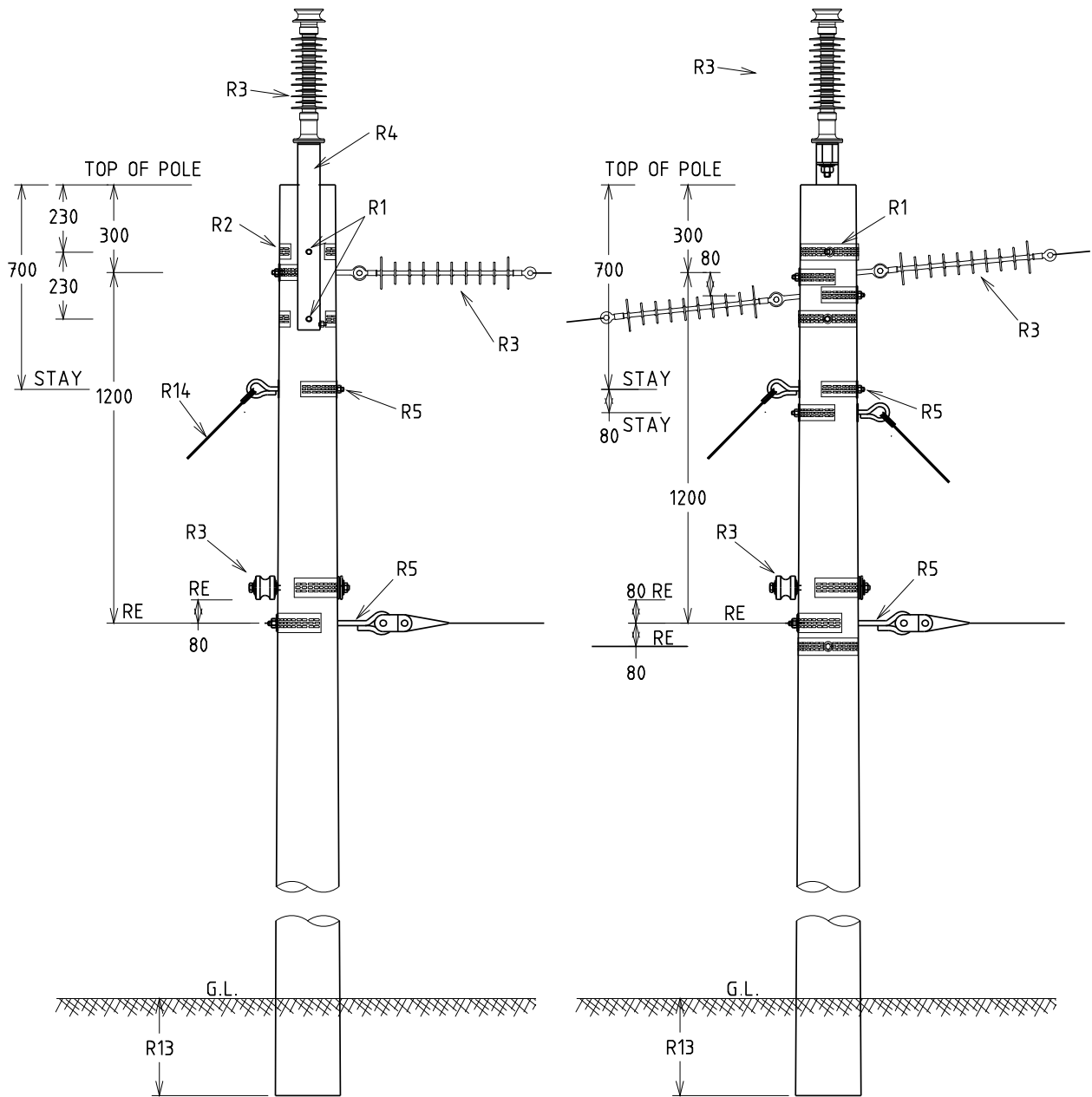
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD				
				SINGLE PHASE TEE-OFF TO STRAIN WITH OR WITHOUT DROPOUT FUSE						DRAWN: JRR DATE: 24-03-2014 DRG. No. H42-1	
										ORIGINATED: SCALE: NTS	
										CHECKED: REE	
										APPROVED: GRANT STACY	
										REV. C	
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.						
C	15.01.16	NOTES REVISED AND DWG # REVISED TO H42-1	FK	ME	GS						
B	12.12.11	ORIGINAL ISSUE									



- NOTES:-
1. ALL HOLES 18Ø U.O.N.
  2. DOWNEARTH - R6.
  3. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600m.
  4. TAP MUST MAINTAIN 400mm FROM POLE.

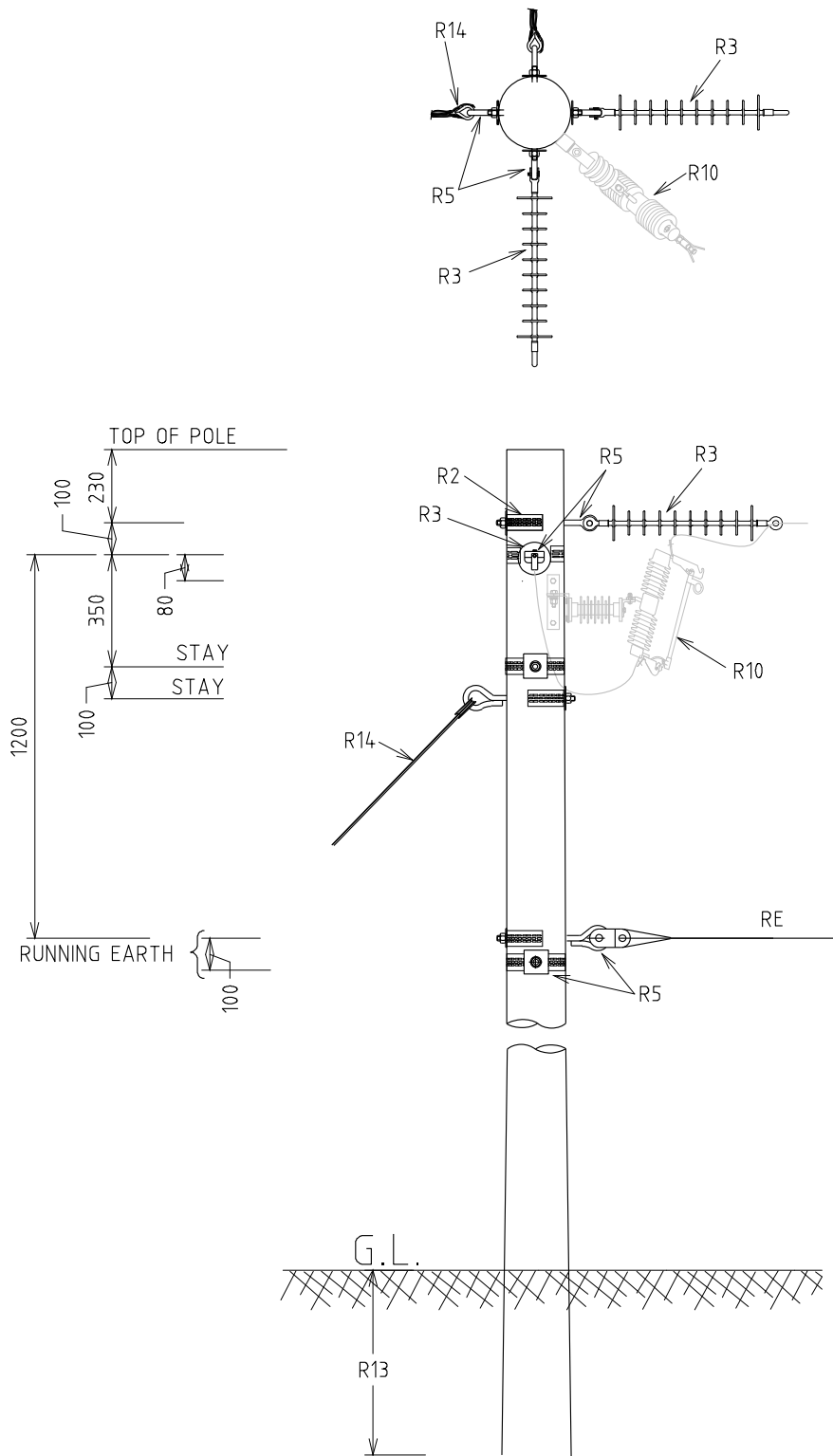
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD			
				INTERMEDIATE WITH CABLE TERMINATION			DRAWN: JRR DATE: 03-12-2015		DRG. No. H42-2	
							ORIGINATED: FK SCALE: NTS			
							CHECKED: ME			
							APPROVED: GRANT STACY		REV. A	
A	15.01.16	ORIGINAL ISSUE		FK	ME	GS				
REV	DATE	DESCRIPTION		ORGO	CHKO	APROD				





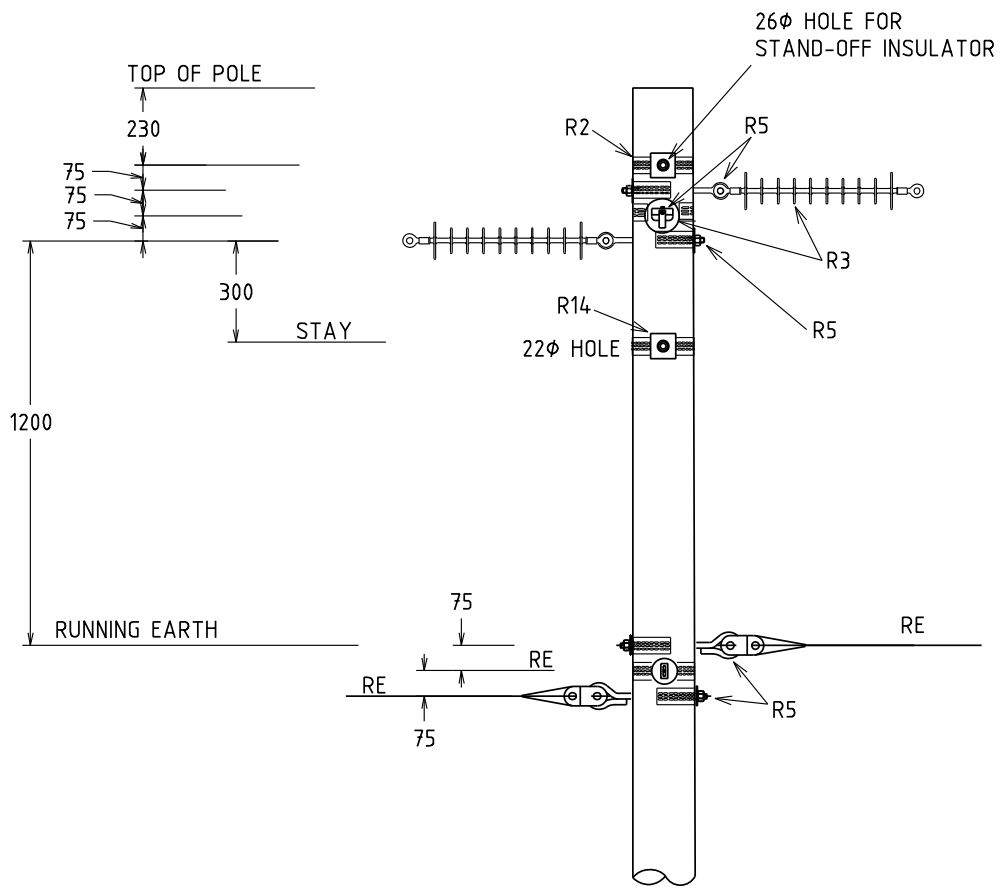
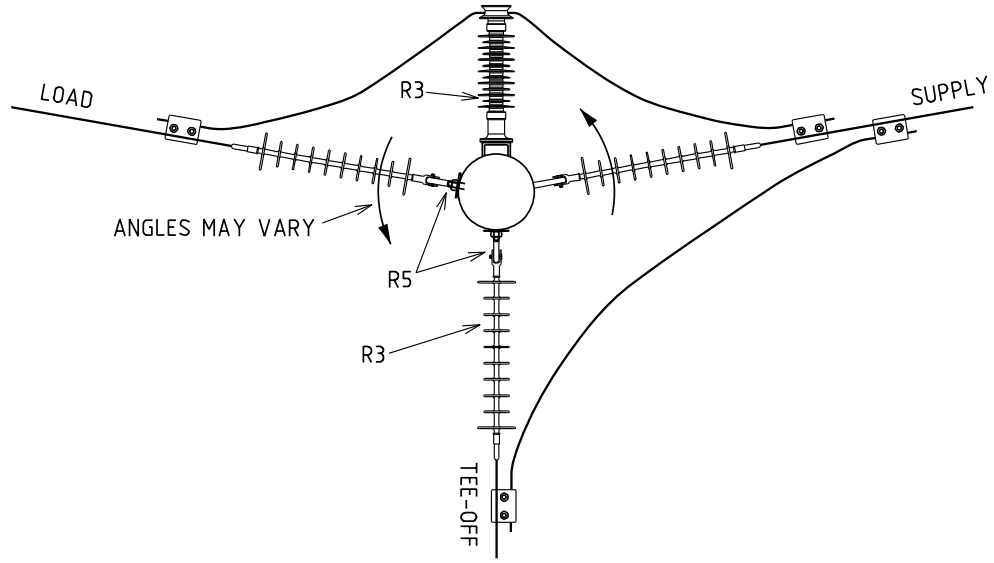
- NOTES:-**
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. ALL HOLES 18Ø U.O.N.
  3. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600m.
  4. USE RUNNING EARTH INTERMEDIATE ANGLE, IF DEVIATION IS >2°.
  5. STAY NOT REQUIRED FOR SLACK BAY APPLICATIONS.

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower	
				TITLE			DRAWN: JRR DATE: 24-03-2014 DRG. No.		H43	
				TEE-OFF WITHOUT DROPOUT FUSE			ORIGINATED: SCALE: NTS			
				DESCRIPTION			CHECKED: REE		APPROVED: GRANT STACY REV. D SHT.	
				ORG. CHKO. APRD.			APPROVED:			
REV	DATE	ORIGINAL ISSUE								
D	20.12.19	DOUBLE TEE-OFF ADDED	NN	REE	GS					
C	13.06.18	STAY BONDING DELETED	BP	CO	GS					
B	23.03.15	FORMAT CHANGED & NOTES REVISED	CO	REE	GS					
A	09.10.12	ORIGINAL ISSUE								



- NOTES:  
 1. ALL DIMENSIONS ARE IN MILLIMETRES.  
 2. ALL HOLES 18φ U.O.N.  
 3. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600m.

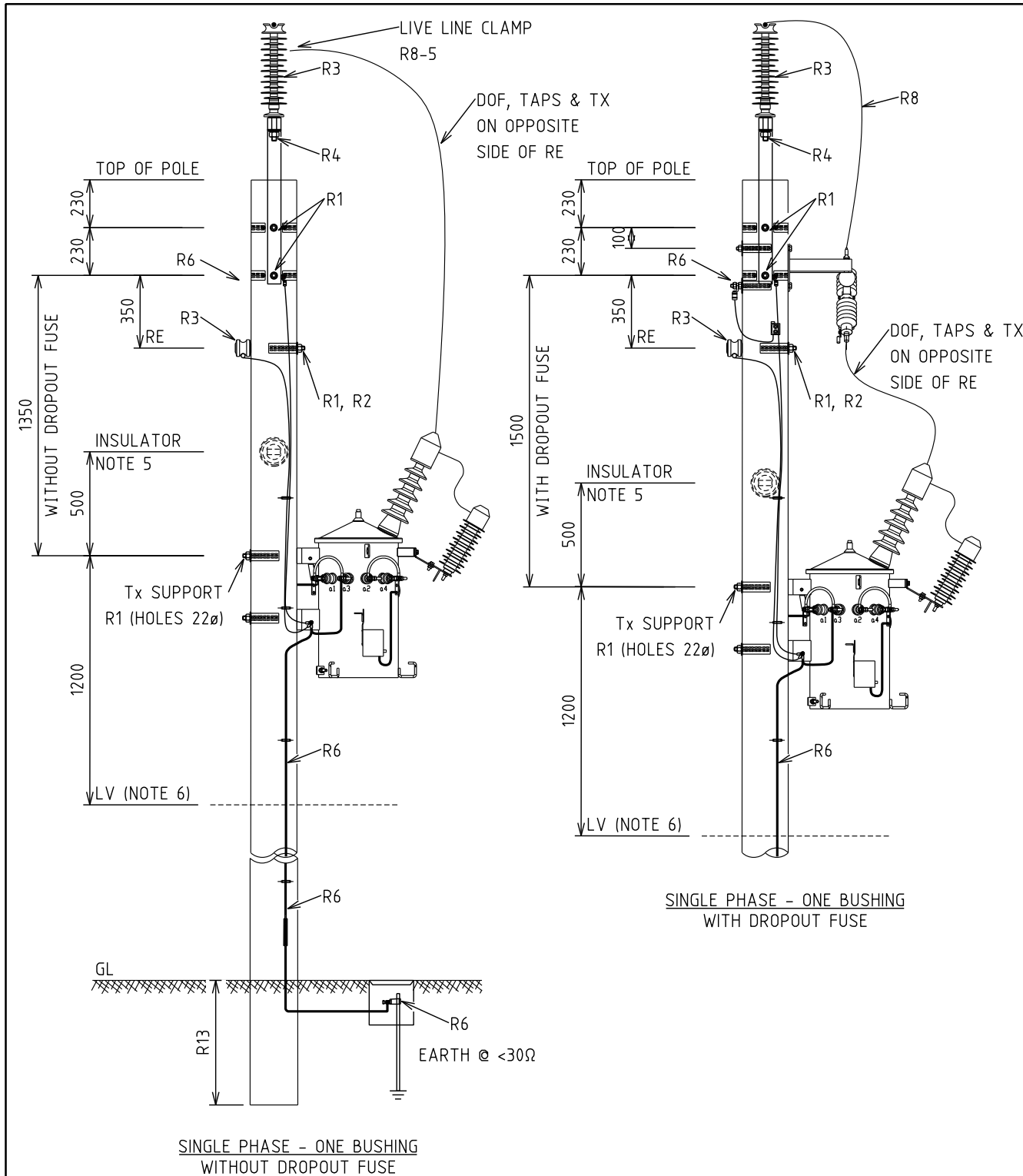
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower	
				TITLE			DRAWN: JRR		DATE: 24-03-2014	
				DOUBLE TERMINATION			ORIGINATED:		SCALE: NTS	
							CHECKED: REE		H44-1	
							APPROVED: GRANT STACY		REV. E	
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.					
E	23.08.22	DOF ADDED	CO	NMc	GS					
D	15.01.16	DRAWING NUMBER CHANGED TO 44-1	FK	ME	GS					
C	04.12.14	FORMAT CHANGED & BONDING WITH RE TO STAY DELETED	JC	REE	GS					
B	21.05.12	ORIGINAL ISSUE								



NOTES:

1. ALL HOLES 18φ U.O.N.
2. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600m.
3. STAY POSITIONING AND NUMBER OF STAYS AS PER OVERHEAD LINE DESIGN MANUAL.

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD			
				TRIPLE TERMINATION			DRAWN: JRR DATE: 30-11-2015 DRG. No.		H44-2	
							ORIGINATED: FK SCALE: NTS			
							CHECKED: ME		REV. B	
							APPROVED: GRANT STACY			
REV	DATE	DESCRIPTION	ORGO	CHKD	APRD					
B	23.05.16	STAND-OFF INSULATOR ADDED	FK	CO	GS					
A	15.01.16	ORIGINAL ISSUE	FK	ME	GS					



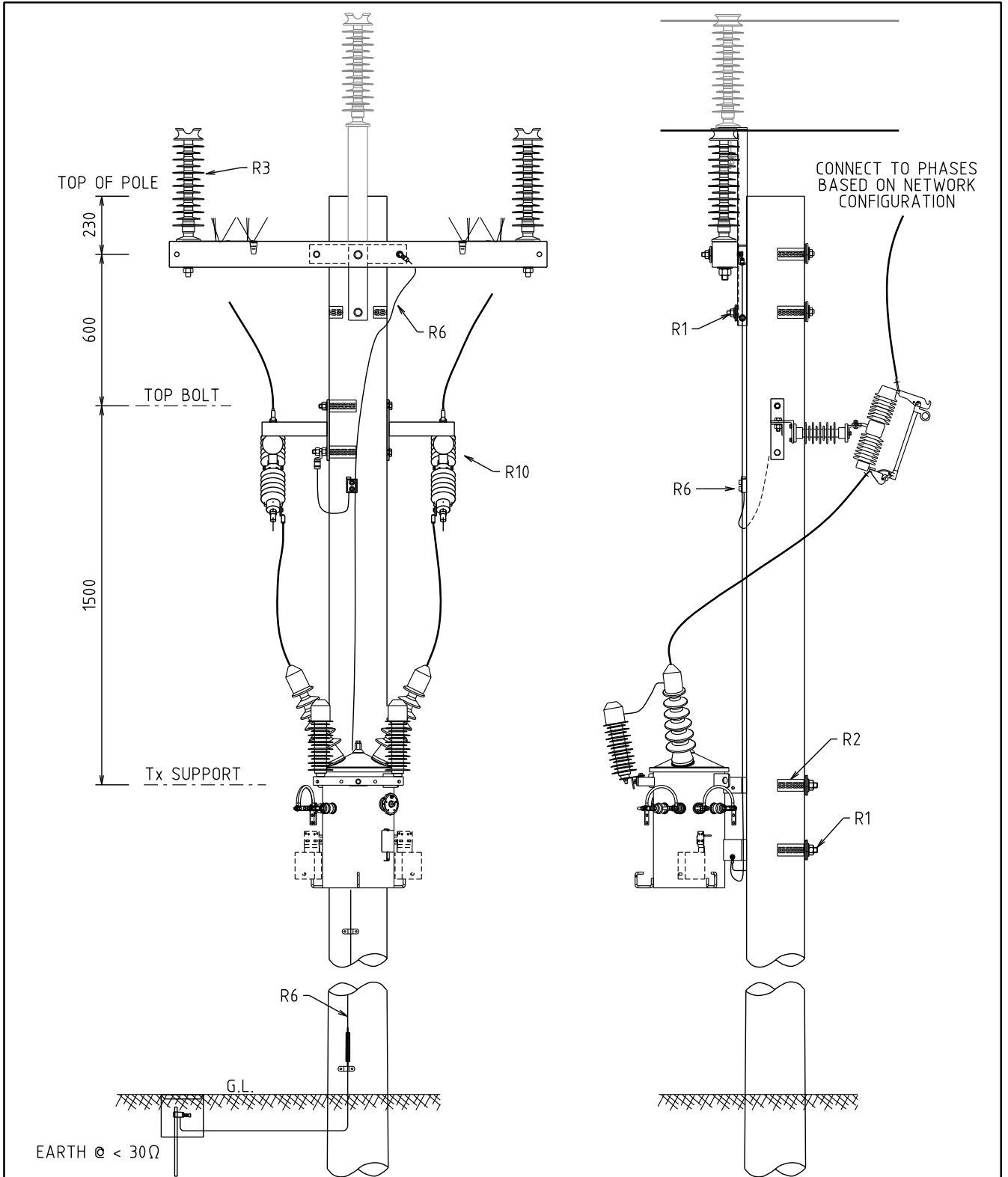
SINGLE PHASE - ONE BUSHING WITHOUT DROPOUT FUSE

SINGLE PHASE - ONE BUSHING WITH DROPOUT FUSE

**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18Ø U.O.N.
3. SEE R12/1 FOR LV ARRANGEMENT DETAILS.
4. SEE H49 FOR EARTH & LV PHASE CONNECTIONS.
5. REFER TO H48-1 FOR MULTIPLE TRANSFORMERS.
6. FOR MAINTENANCE ONLY, REFER TO R12-1.

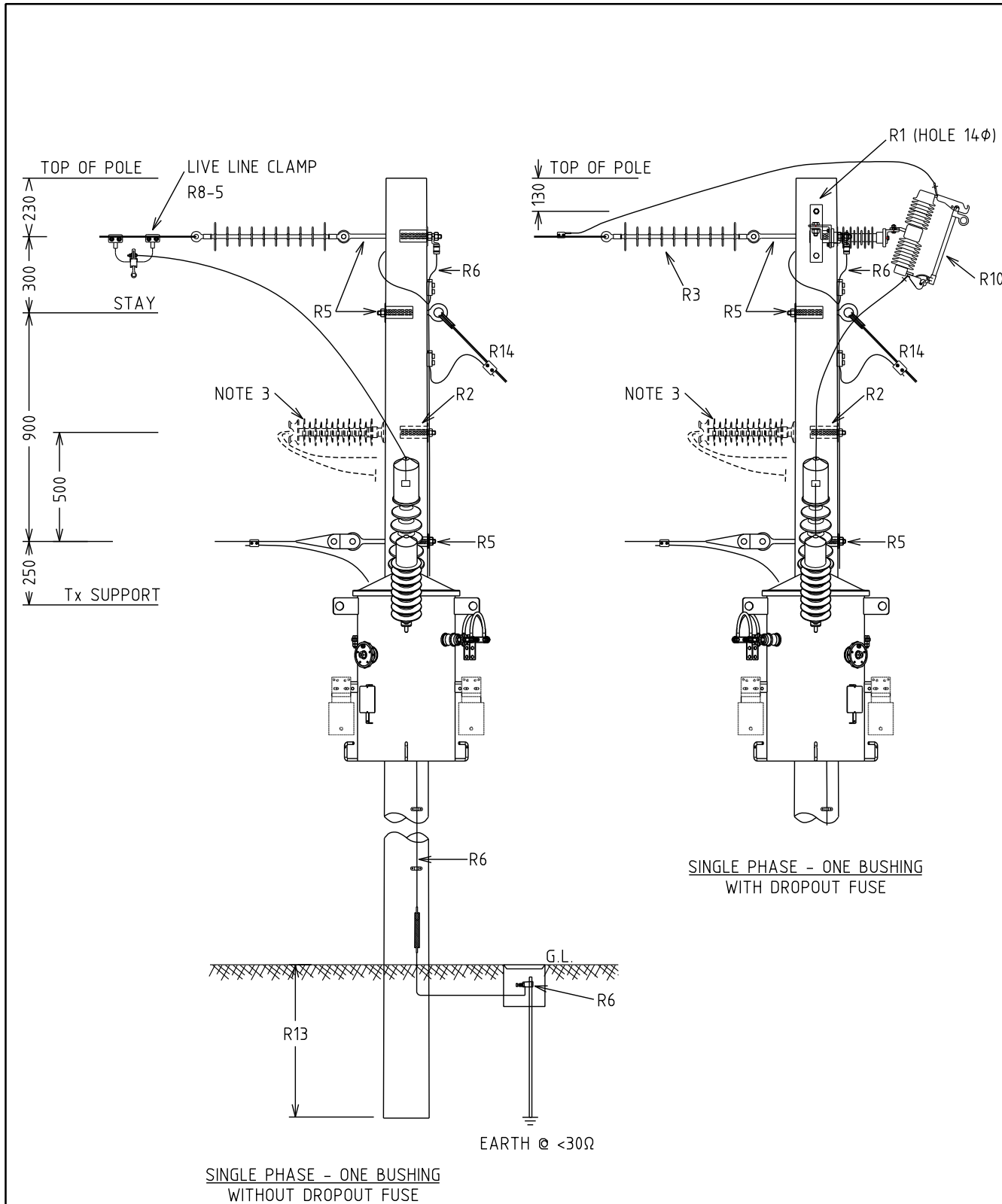
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD					
				TITLE			DRAWN: JRR		DATE: 24-03-2024		DRG. No.	
				SINGLE PHASE NETWORK			ORIGINATED:		SCALE: NTS		H46-1	
				INTERMEDIATE TRANSFORMER			CHECKED: REE		APPROVED:			
				WITH OR WITHOUT DROPOUT FUSE			APPROVED: GRANT STACY		REV. J		SHT. 1/1	
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.							



**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600mm
3. ALL HOLES 18φ U.O.N.
4. SEE R12/1 FOR LV ARRANGEMENT DETAILS.
5. REMOVE CENTRE PHASE IF 2PH CONSTRUCTION

				STRUCTURE		DISTRIBUTION CONSTR. STANDARD			
				TITLE		DRAWN: JRR		DATE: 16-01-2020	
				3 PHASE NO RE OR 2 PHASE NETWORK AND 2 PHASE TRANSFORMER WITH DROPOUT FUSE		CHECKED: REE		SCALE: NTS	
						APPROVED: GRANT STACY		DRG. No. H46-2	
								REV. B	
								SHT. 1/1	
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.				
B	16.12.25	POLE TOP EARTHING ADDED	CO	KT	MM				
A	28.01.20	ORIGINAL ISSUE	NN	REE	GS				



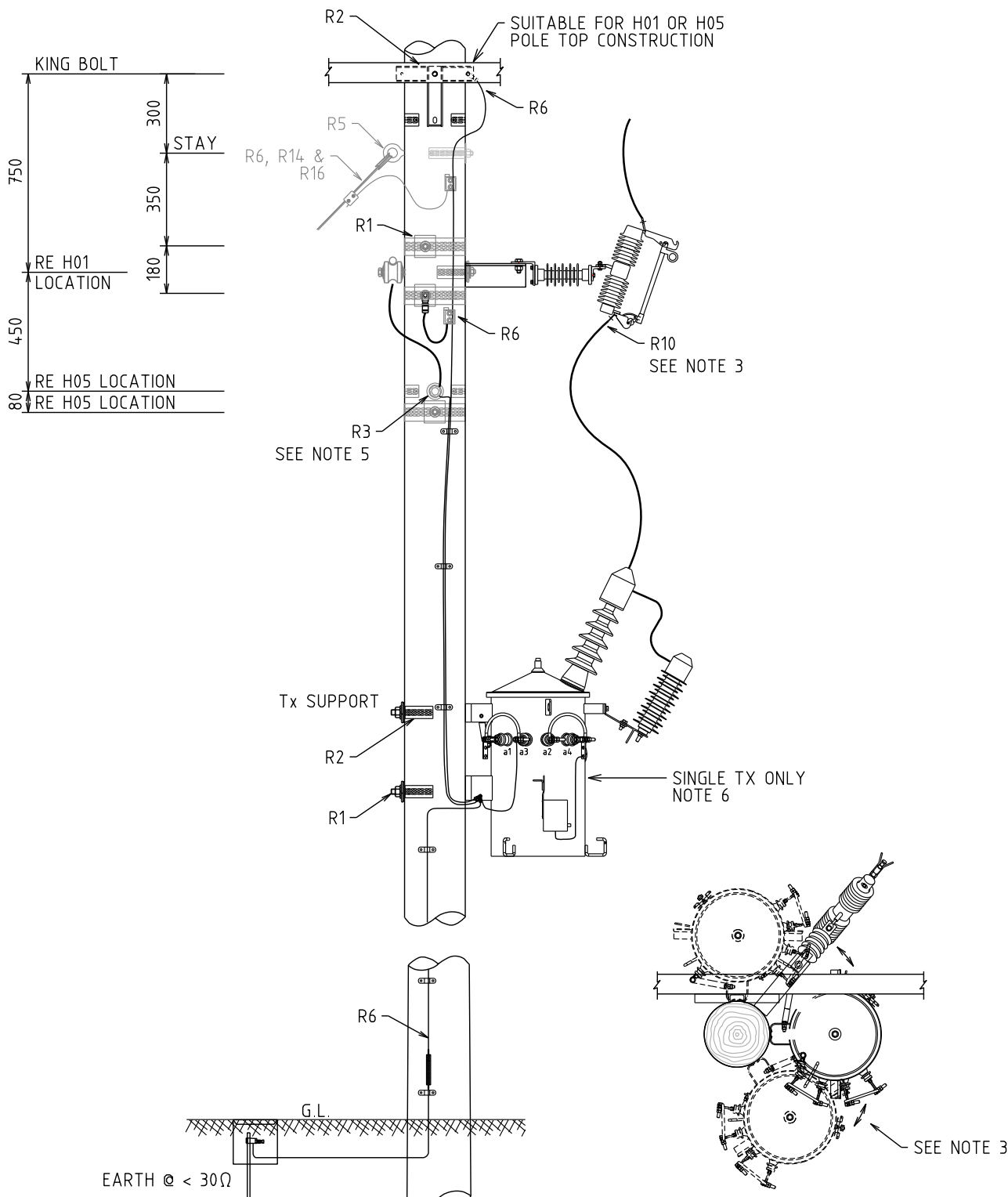
SINGLE PHASE - ONE BUSHING WITHOUT DROPOUT FUSE

SINGLE PHASE - ONE BUSHING WITH DROPOUT FUSE

NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETRES U.O.N.
- 2. ALL HOLES 18φ U.O.N.
- 3. REFER TO H48-1 FOR MULTIPLE TRANSFORMERS.

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD					
				TITLE			DRAWN: JRR		DATE: 24-03-2014		DRG. No.	
				SINGLE PHASE NETWORK AND TERMINATION TRANSFORMER WITH OR WITHOUT DROPOUT FUSE			ORIGINATED:		SCALE: NTS		H47-1	
							CHECKED: REE		APPROVED:			
							APPROVED: GRANT STACY				SHT. 1/1	
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.							

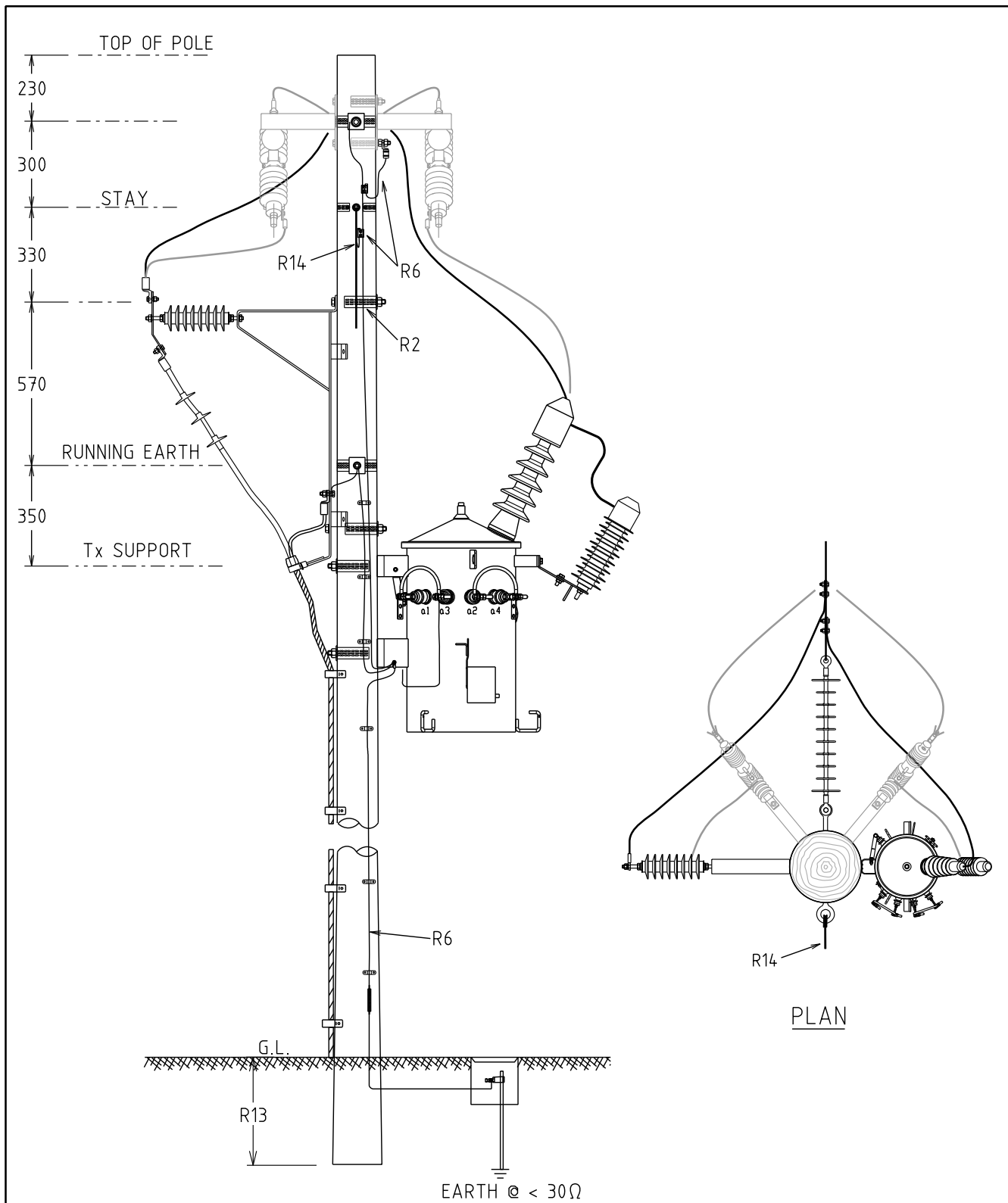


**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600m
3. Tx & DOF ORIENTED TO ACHIEVE MAXIMUM CLEARANCE.
4. MAINTAIN 400mm SEPARATION BETWEEN RUNNING EARTH AND TAPS.
5. RUNNING EARTH (RE) POSITION IS RELATED TO H01 OR H05.
6. IF LARGER SUPPLY REQUIRED USE 3 PHASE TRANSFORMER.

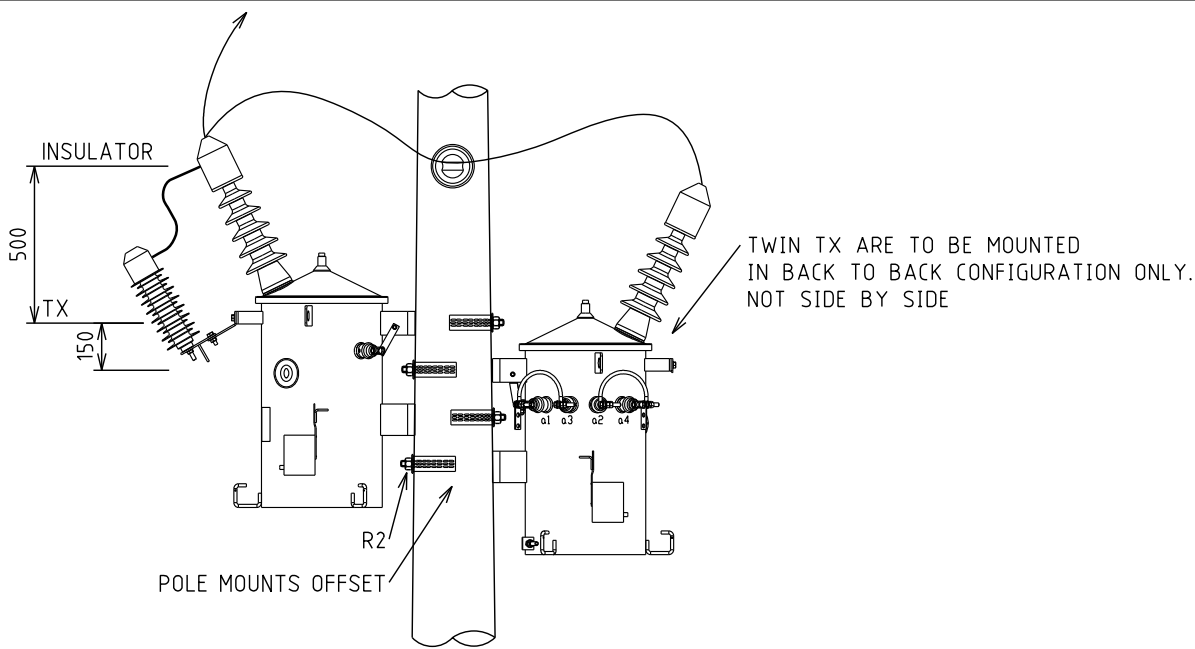
				STRUCTURE				DISTRIBUTION CONSTR. STANDARD					
G	16.12.25	POLE TOP EARTHING ADDED		CO	KT	MM	TITLE	DRAWN: JRR	DATE: 24-03-2014	DRG. No.			
F	14.11.19	MODIFIED TO INCORPORATE H05		NN	NMc	GS	<b>3 PHASE WITH RE NETWORK AND 1 PHASE TRANSFORMER WITH DROPOUT FUSE</b>	ORIGINATED:	SCALE: NTS	<b>H47-2</b>			
E	09.11.17	TRANSFORMER TYPE CHANGED		NMc	CO	GS		CHECKED: REE					
D	21.12.15	FORMAT CHANGED		ME	REE	GS		APPROVED:	GRANT STACY			REV. G	SHT. 1/1
C	28.05.12	ORIGINAL ISSUE											
REV.	DATE	DESCRIPTION		ORGD.	CHKD.	APRD.							



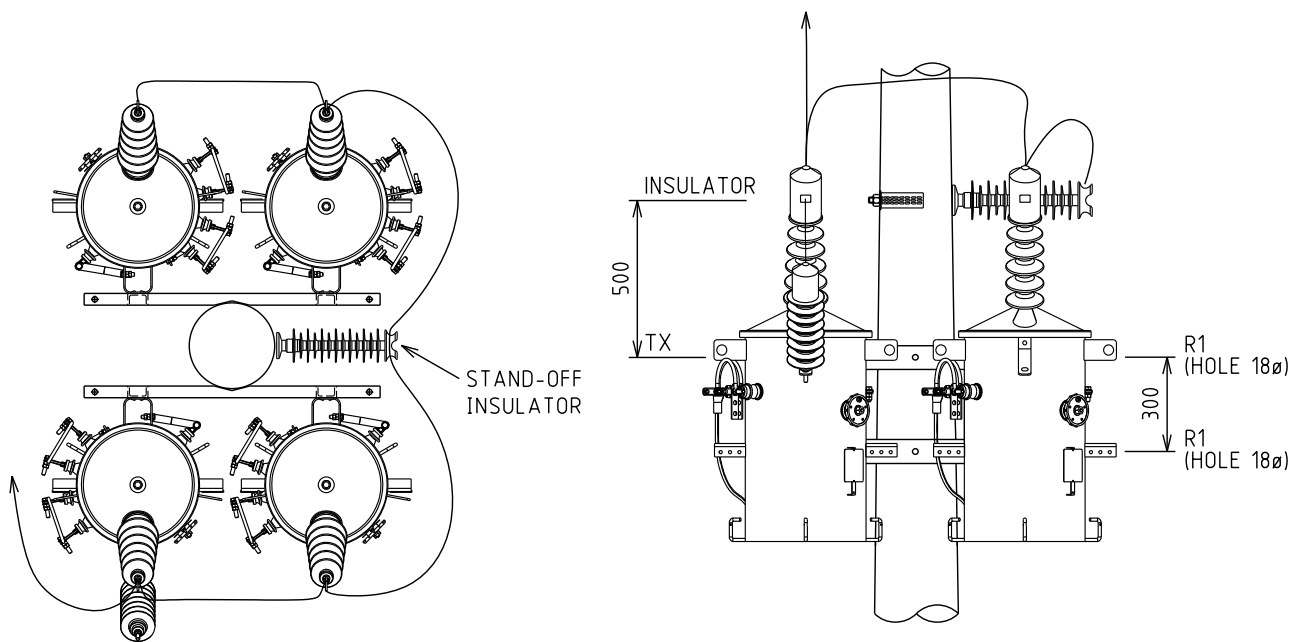


- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. ALL HOLES 18φ U.O.N.
  3. POSITION Tx TO SUPPLY CUSTOMER AND MAINTAIN CLEARANCE.
  4. STAY POSITIONING AS PER OVERHEAD LINE DESIGN MANUAL.
  5. SEE R12/1 FOR LV ARRANGEMENT DETAILS.

				STRUCTURE		DISTRIBUTION CONSTR. STANDARD			
				TITLE <b>SINGLE PHASE NETWORK WITH CABLE TERMINATION AND TRANSFORMER WITH OR WITHOUT DROPOUT FUSE</b>					
DRAWN: JRR		DATE: 15-01-2020		ORIGINATED: NN		SCALE: NTS		DRG. No. <b>H47-4</b>	
CHECKED: REE		APPROVED: GRANT STACY		REV. B		SHT. 1/1			
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.				
B	16.12.25	POLE TOP EARTHING ADDED	CO	KT	MM				
A	24.01.20	ORIGINAL ISSUE	NN	REE	GS				



DOUBLE ARRANGEMENT

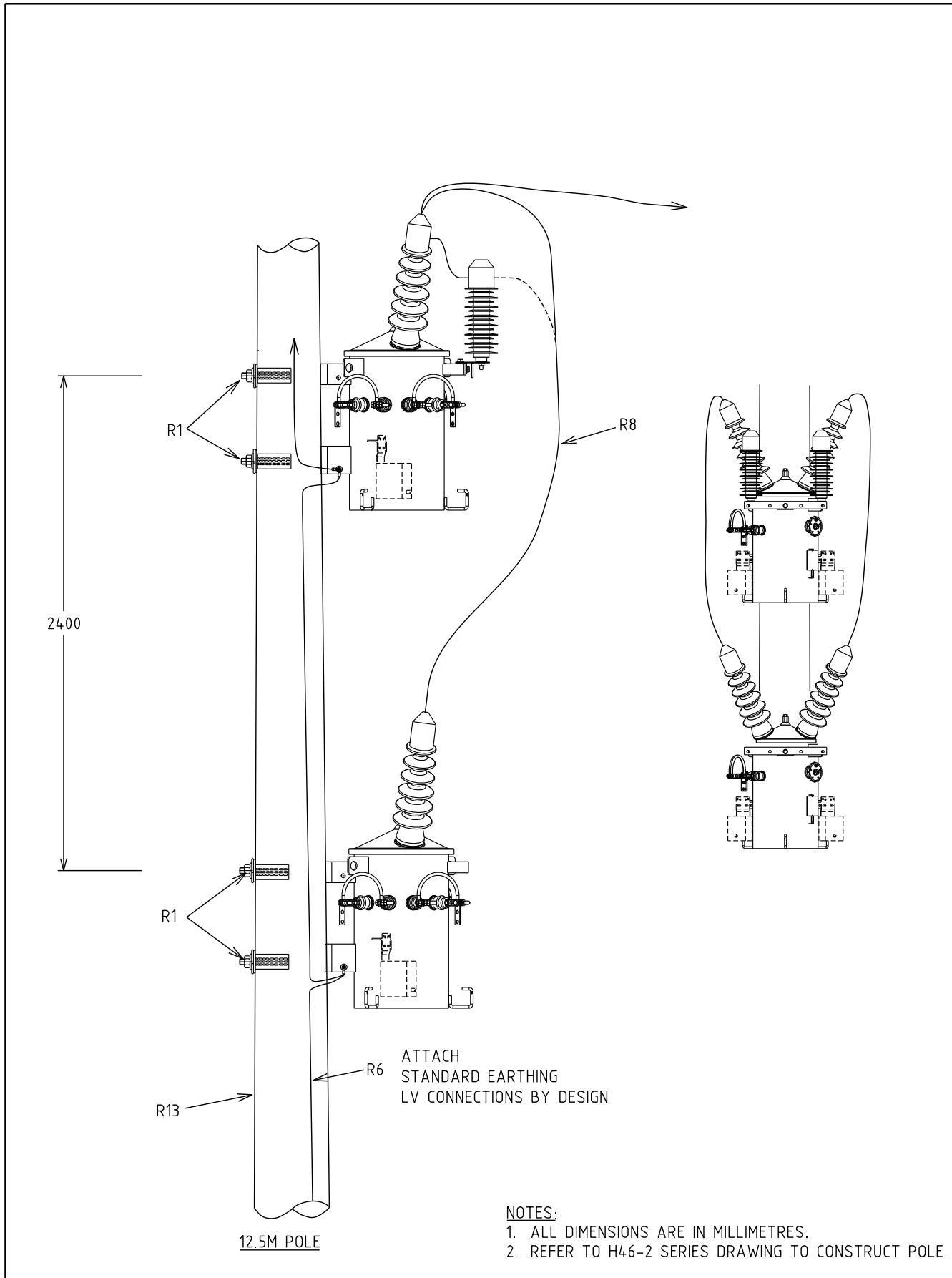


TRIPLE OR QUAD TX's ARRANGEMENT  
(ONLY QUAD LAYOUT SHOWN FOR CLARITY)

NOTE:

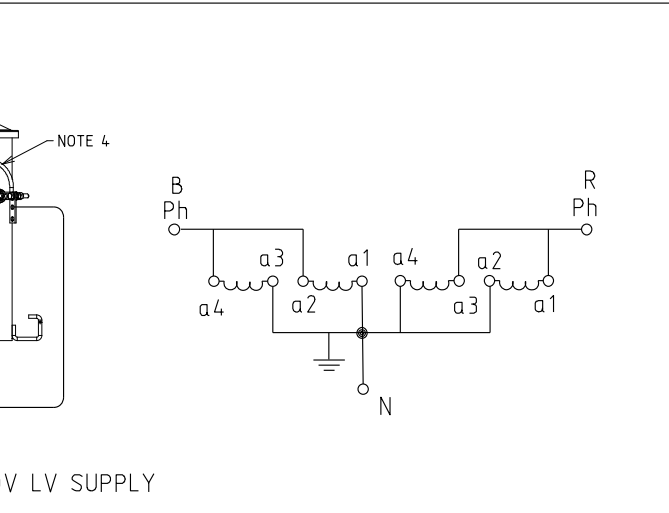
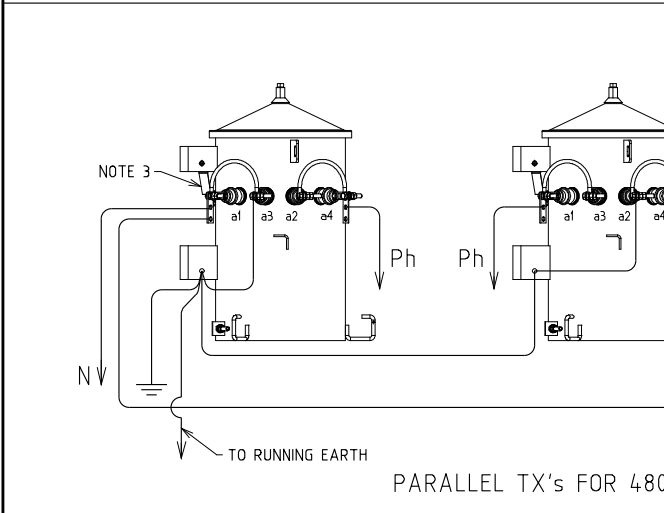
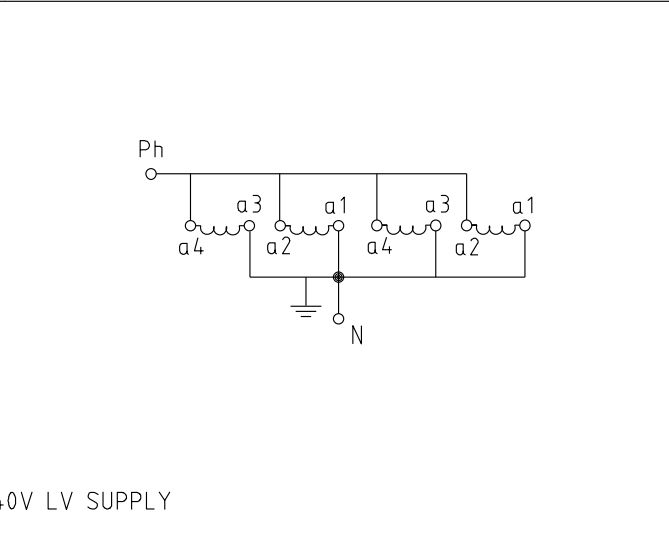
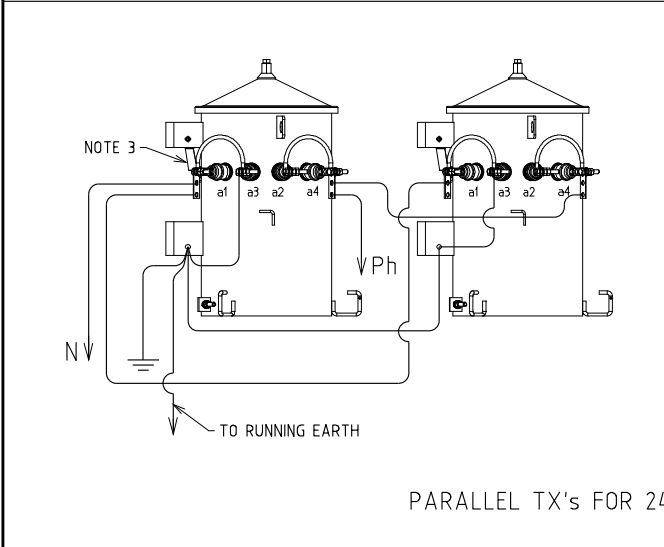
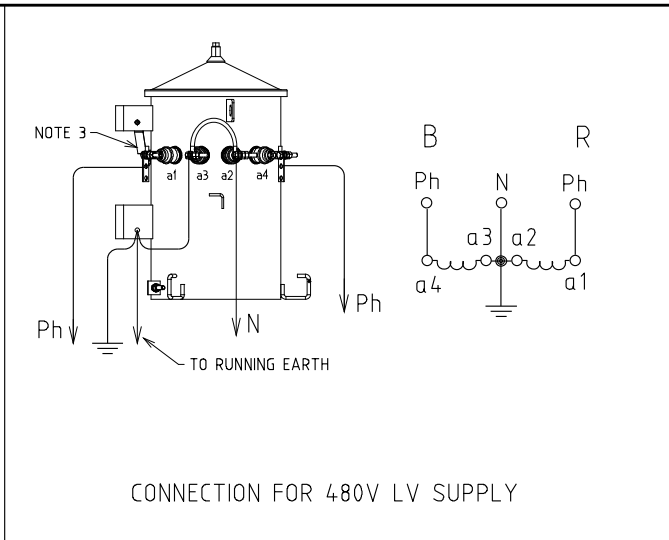
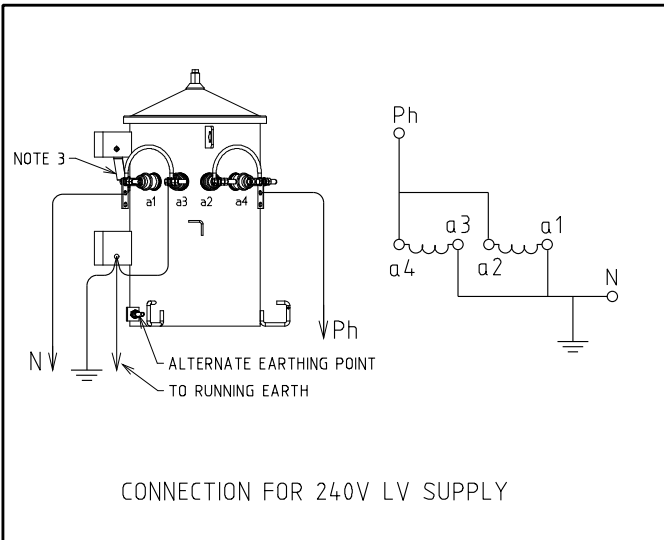
1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18Ø U.O.N.
3. TWIN TX's ARE TO BE MOUNTED IN BACK TO BACK CONFIGURATION ONLY.
4. SEE R12/1 FOR LV ARRANGEMENT DETAILS.
5. SEE H49 & H50 FOR LV PHASE AND NEUTRAL CONNECTIONS.
6. ALL TRANSFORMERS MUST BE SAME MANUFACTURER AND SIZE.
7. REFER TO APPROPRIATE H40 SERIES DRAWING TO CONSTRUCT POLE.

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD					
				TITLE <b>SINGLE PHASE TRANSFORMER MOUNTING FOR TWIN, TRIPLE OR QUAD ARRANGEMENT</b>							DRAWN: JRR    DATE: 24-03-2014    DRG. No.	
											<b>H48-1</b>	
											CHECKED: REE	
											APPROVED: GRANT STACY    REV. H    SHT. 1/1	
H	16.12.25	TITLE UPDATED. TWIN TX's LOCATION MODIFIED	CO	KT	MM							
G	29.05.20	SPARE SURGE ARRESTER REMOVED	NMc	NN	GS							
F	16.11.18	TRANSFORMER TYPE CHANGED	NMc	NN	GS							
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.							



- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. REFER TO H46-2 SERIES DRAWING TO CONSTRUCT POLE.

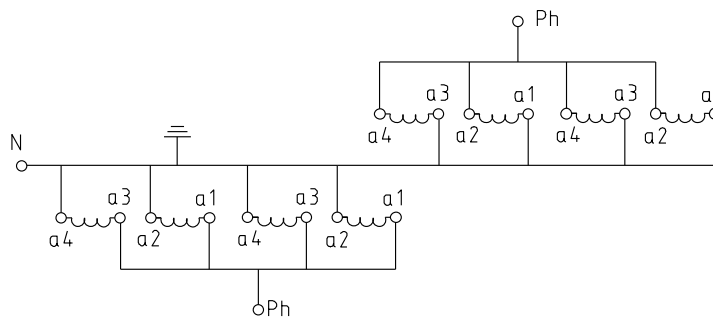
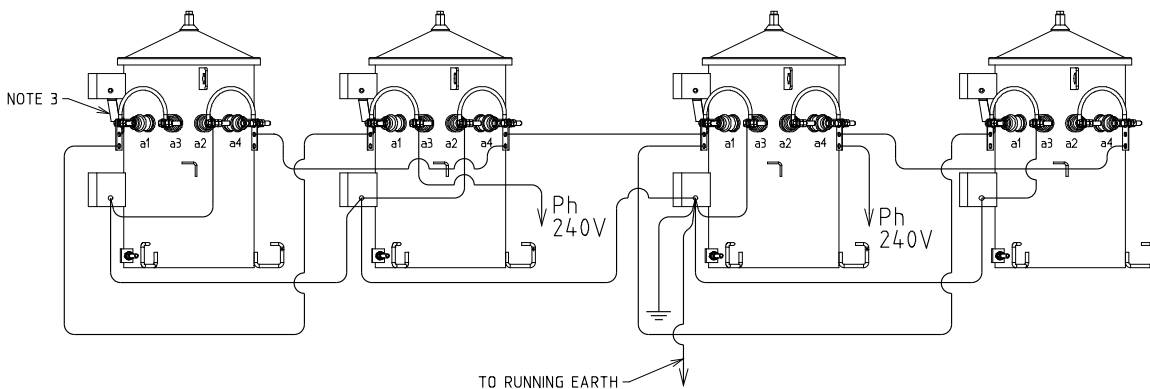
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD					
				TITLE							DRAWN: JRR DATE: 21-03-2014 DRG. No.	
				SINGLE PHASE 2 BUSHING TRANSFORMER MOUNTING FOR VERTICAL ARRANGEMENT							SCALE: NTS	
											H48-2	
											CHECKED: REE	
											APPROVED: GRANT STACY	
											REV. C SHT. 1/1	
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.							
C	16.12.25	POLE TOP EARTHING ADDED		CO	KT	MM						
B	16.11.18	TRANSFORMER TYPE CHANGED		NMc	NN	GS						
A	28.02.11	ORIGINAL ISSUE										



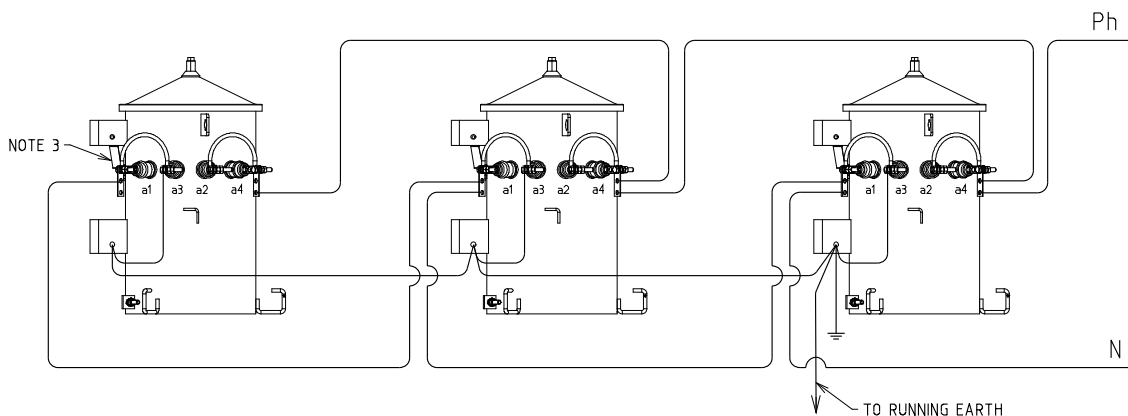
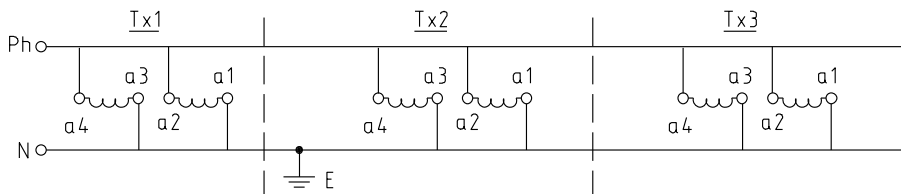
NOTE:-

1. SEE R12/1 FOR LV ARRANGEMENT DETAILS.
2. HV BUSHINGS NOT SHOWN.
3. ENSURE ER (EARTH RETURN) LINK TO THE TANK IN PLACE - SEE R12-1.
4. BUSHING WITH LV LINKS CAN BE USED INTERCHANGABLY.

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower	
				TITLE			DRAWN: JRR DATE: 24-03-2014 DRG. No.			
				EARTH & LV PHASE CONNECTIONS			ORIGINATED: SCALE: NTS		H49	
							CHECKED: REE			
							APPROVED: GRANT STACY		REV. C SHT.	
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.					
C	31.10.17	TRANSFORMER TYPE CHANGED		NMc	CO GS					
B	13.10.16	FORMAT CHANGED AND NOTE ADDED		FK	REE GS					
A	13.07.09	ORIGINAL ISSUE								



4 TX's FOR 480V LV SUPPLY

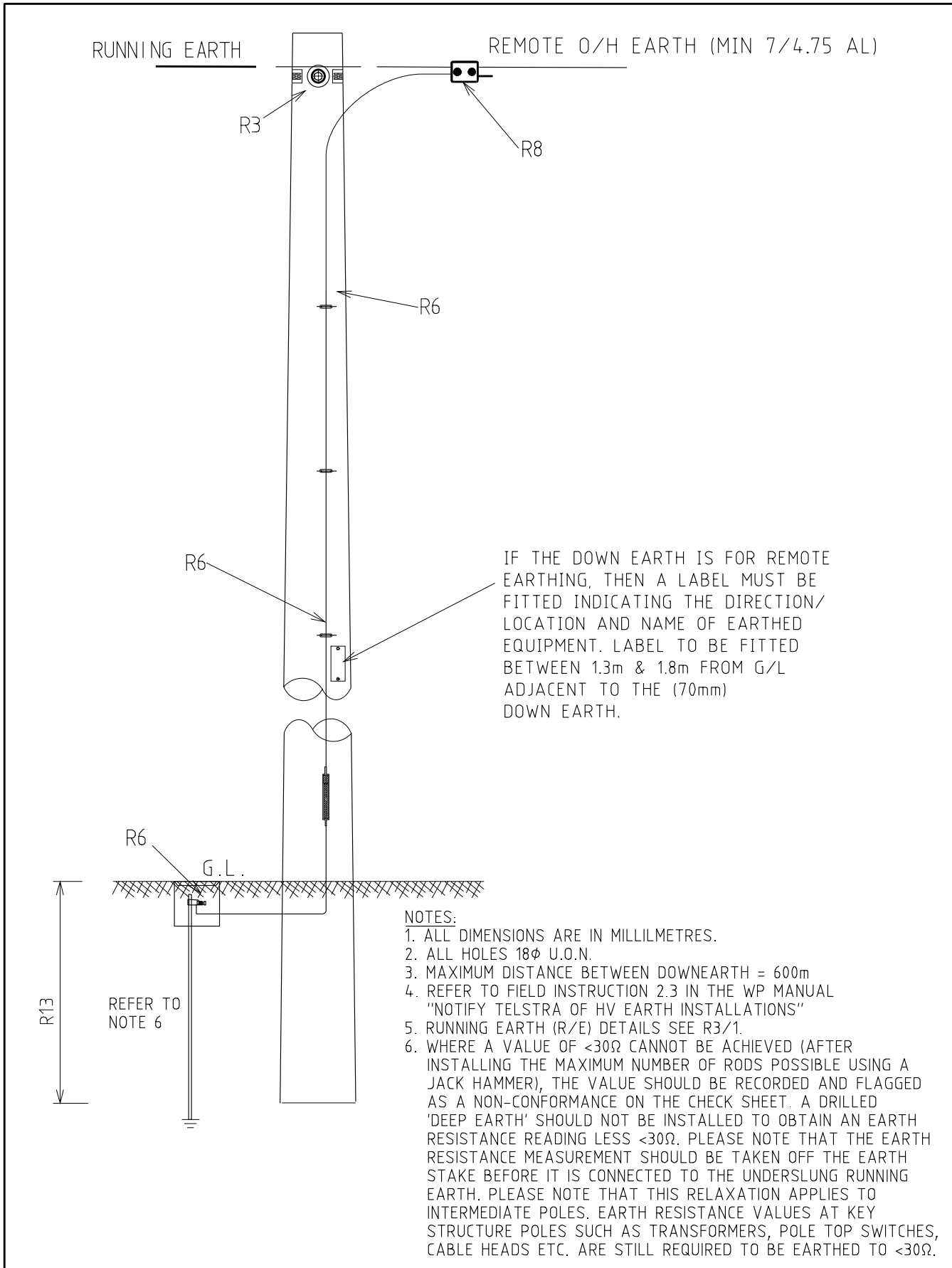


CONNECTIONS FOR THREE PARALLEL TX's - 240 LV SUPPLY

NOTE:-

1. SEE R12/1 FOR LV ARRANGEMENT DETAILS.
2. HV BUSHINGS NOT SHOWN.
3. ENSURE ER (EARTH RETURN) LINK TO THE TANK IN PLACE - SEE R12-1.
4. BUSHING WITH LV LINKS CAN BE USED INTERCHANGABLY.

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower	
				TITLE			DRAWN: JRR		DATE: 24-03-2014 DRG. No.	
				EARTH & LV PHASE CONNECTIONS			ORIGINATED: REE		SCALE: NTS	
				THREE & FOUR TRANSFORMERS SETUP			CHECKED: REE		H50	
							APPROVED: GRANT STACY		REV. C	
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APPRD.			SHT.		
C	30.10.17	TRANSFORMER TYPE CHANGED	NMC	CO	GS					
B	13.10.14	FORMAT CHANGED AND NOTE ADDED	FK	REE	GS					
A	13.07.00	ORIGINAL ISSUE								

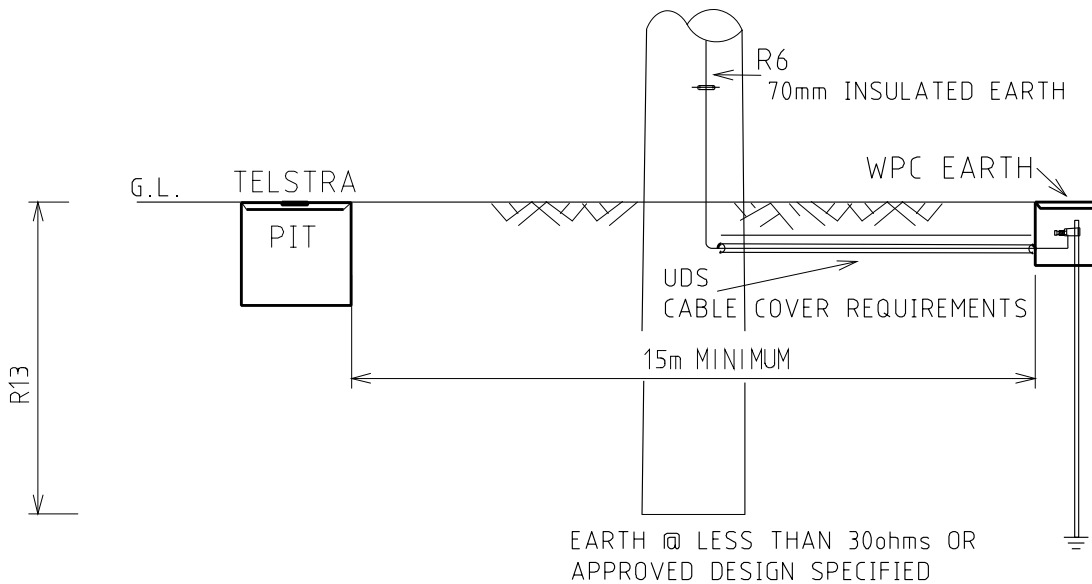
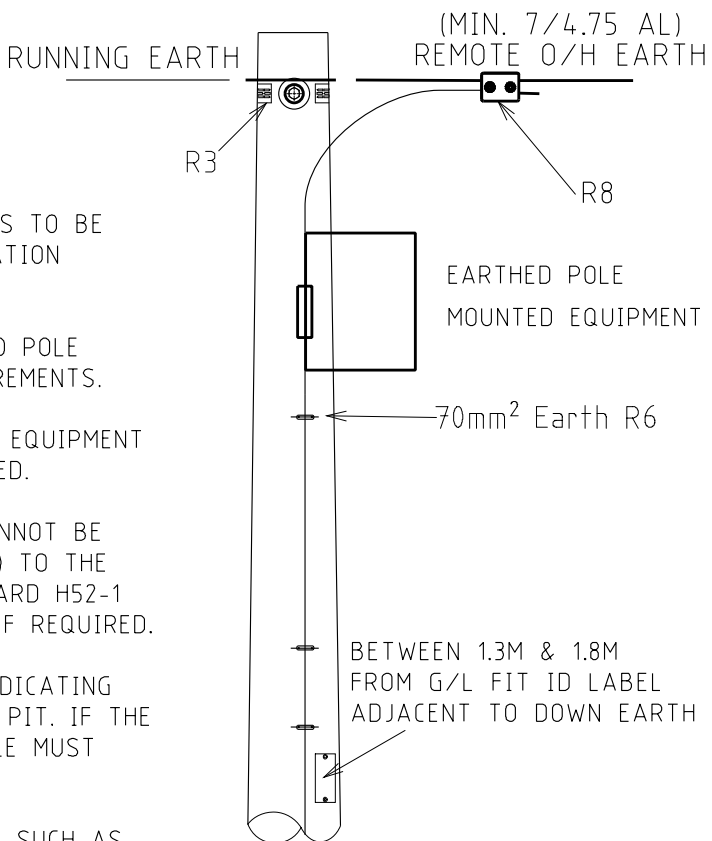


- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. ALL HOLES 18 $\phi$  U.O.N.
  3. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600mm
  4. REFER TO FIELD INSTRUCTION 2.3 IN THE WP MANUAL "NOTIFY TELSTRA OF HV EARTH INSTALLATIONS"
  5. RUNNING EARTH (R/E) DETAILS SEE R3/1.
  6. WHERE A VALUE OF <math><30\Omega</math> CANNOT BE ACHIEVED (AFTER INSTALLING THE MAXIMUM NUMBER OF RODS POSSIBLE USING A JACK HAMMER), THE VALUE SHOULD BE RECORDED AND FLAGGED AS A NON-CONFORMANCE ON THE CHECK SHEET. A DRILLED 'DEEP EARTH' SHOULD NOT BE INSTALLED TO OBTAIN AN EARTH RESISTANCE READING LESS <math><30\Omega</math>. PLEASE NOTE THAT THE EARTH RESISTANCE MEASUREMENT SHOULD BE TAKEN OFF THE EARTH STAKE BEFORE IT IS CONNECTED TO THE UNDERSLUNG RUNNING EARTH. PLEASE NOTE THAT THIS RELAXATION APPLIES TO INTERMEDIATE POLES. EARTH RESISTANCE VALUES AT KEY STRUCTURE POLES SUCH AS TRANSFORMERS, POLE TOP SWITCHES, CABLE HEADS ETC. ARE STILL REQUIRED TO BE EARTHED TO <math><30\Omega</math>.

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower	
				TITLE			DRAWN: JRR		DATE: 24-03-2014	
				DOWN EARTH-RUNNING EARTH			ORIGINATED: REE		SCALE: NTS	
							CHECKED: REE		DRG. No. H52-1	
							APPROVED: GRANT STACY		REV. B	
									SHT.	
REV	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.					
B	14.11.18	NOTES REVISED	REE	CO	GS					
A	10.05.08	ORIGINAL ISSUE								

REMOTE/EXTENDED EARTH INSTALLATION NOTES TO BE USED WHEN STANDARD DOWN EARTH INSTALLATION CANNOT BE APPLIED.

1. EARTH PIT CANNOT BE FITTED ADJACENT TO POLE DUE TO TELSTRA OR OTHER TECHNICAL REQUIREMENTS.
2. THE 15M SEPARATION APPLIES TO TELSTRA EQUIPMENT UNLESS SPECIFIC SITE VARIATION IS APPROVED.
3. IF 15Ms OR THE APPROVED SEPARATION CANNOT BE ACHIEVED, THEN A O/H EARTH (Min 7/4.75 AL) TO THE NEXT POLE MAY BE INSTALLED AND A STANDARD H52-1 CONNECTION APPLIED. UPGRADE R/E SECTION IF REQUIRED.
4. A STANDARD LABEL SIGN TO BE FITTED INDICATING DIRECTION AND LOCATION OF THE WPC EARTH PIT. IF THE DOWN EARTH IS ON THE NEXT POLE THAT POLE MUST ALSO BE LABELLED. SEE H52-1.
5. STANDARD UDS CABLE PROTECTION APPLIES SUCH AS CONDUIT AT 750mm DEPTH.



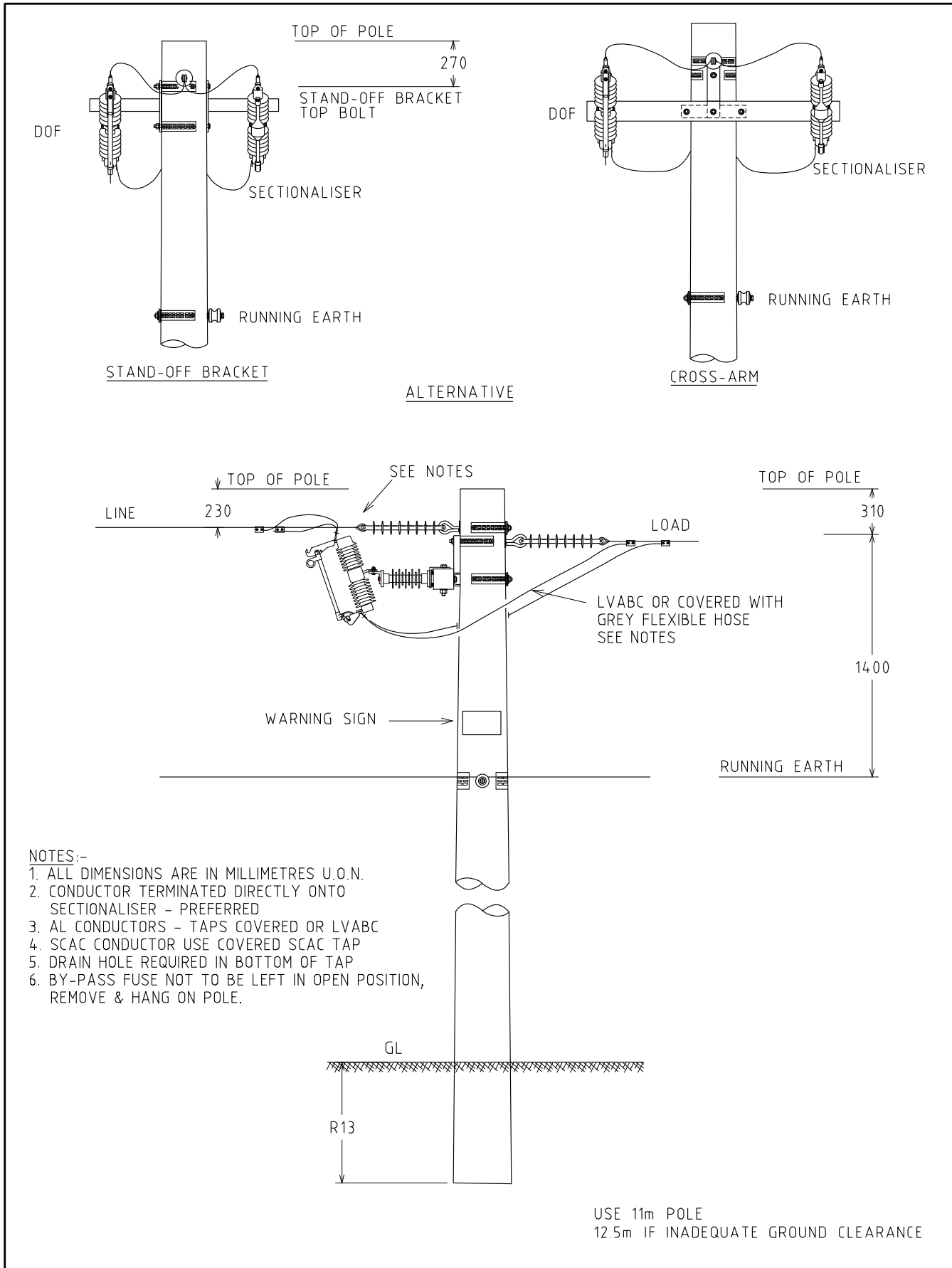
ALTHOUGH THE DRAWING OUTLINES BOTH EXTENDED & REMOTE OPTIONS ONLY ONE SELECTION IS REQUIRED. EXTENDED "E" AWAY FROM THE POLE OR O/H REMOTE "E".

REFER TO FIELD INSTRUCTION 2.3 IN THE WP MANUAL "NOTIFY TELSTRA OF HV EARTH INSTALLATIONS"

**NOTES**

1. ALL HOLES 18DIA U.O.N.
2. MAXIMUM DISTANCE BETWEEN DOWNEARTH = 600m

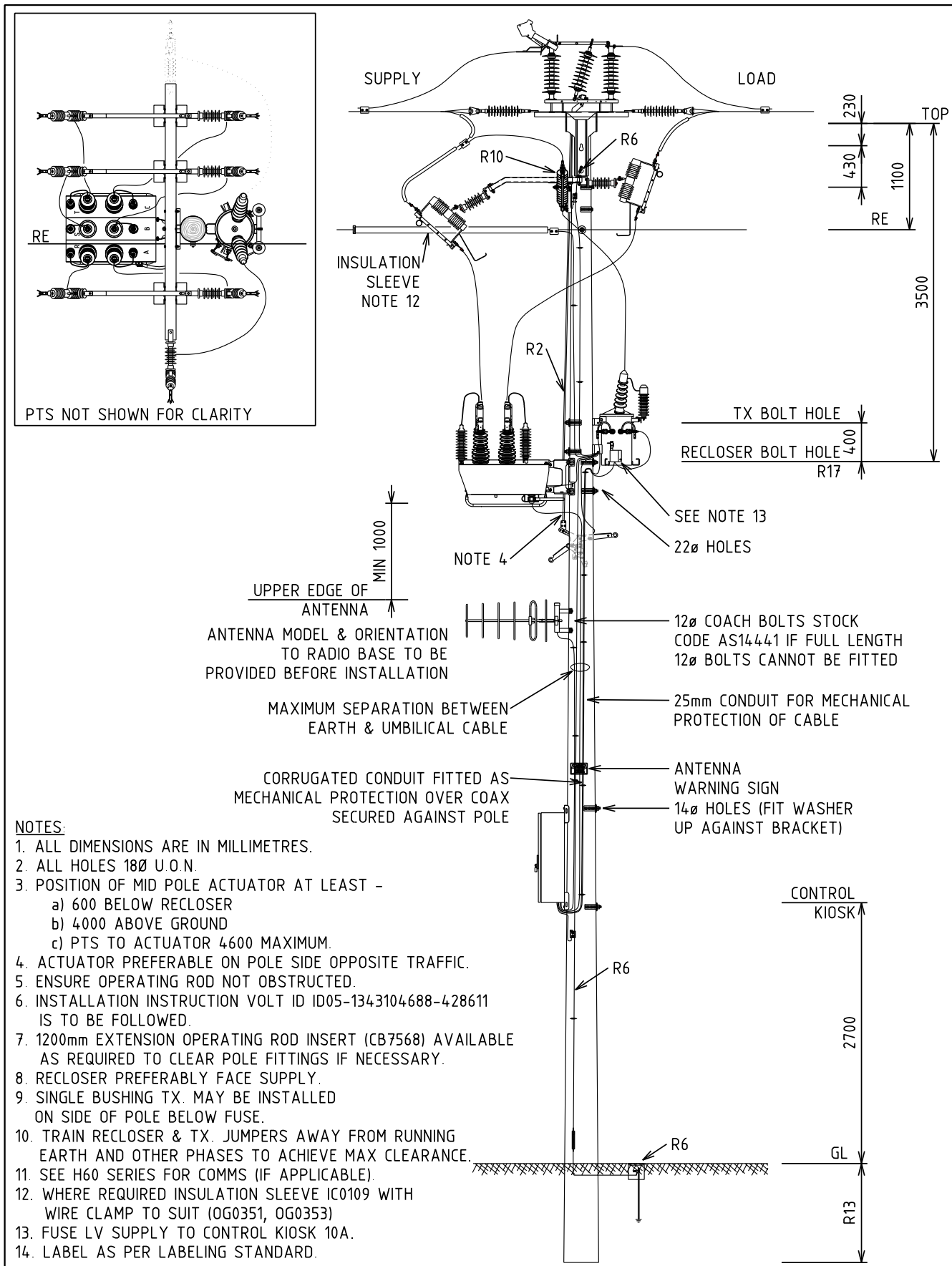
				STRUCTURE		DISTRIBUTION CONSTR. STANDARD			
				EXTENDED OR REMOTE DOWN EARTH-RUNNING EARTH		DRAWN: JRR DATE: 24-03-2014 DRG. No.		H52-2	
						ORIGINATED: SCALE: NTS			
						CHECKED: REE		REV. A SHT.	
						APPROVED: GRANT STACY			
A	10.05.18	ORIGINAL ISSUE	DESCRIPTION	ORGD.	CHKD.	APRD.			



NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETRES U.O.N.
2. CONDUCTOR TERMINATED DIRECTLY ONTO SECTIONALISER - PREFERRED
3. AL CONDUCTORS - TAPS COVERED OR LVABC
4. SCAC CONDUCTOR USE COVERED SCAC TAP
5. DRAIN HOLE REQUIRED IN BOTTOM OF TAP
6. BY-PASS FUSE NOT TO BE LEFT IN OPEN POSITION, REMOVE & HANG ON POLE.

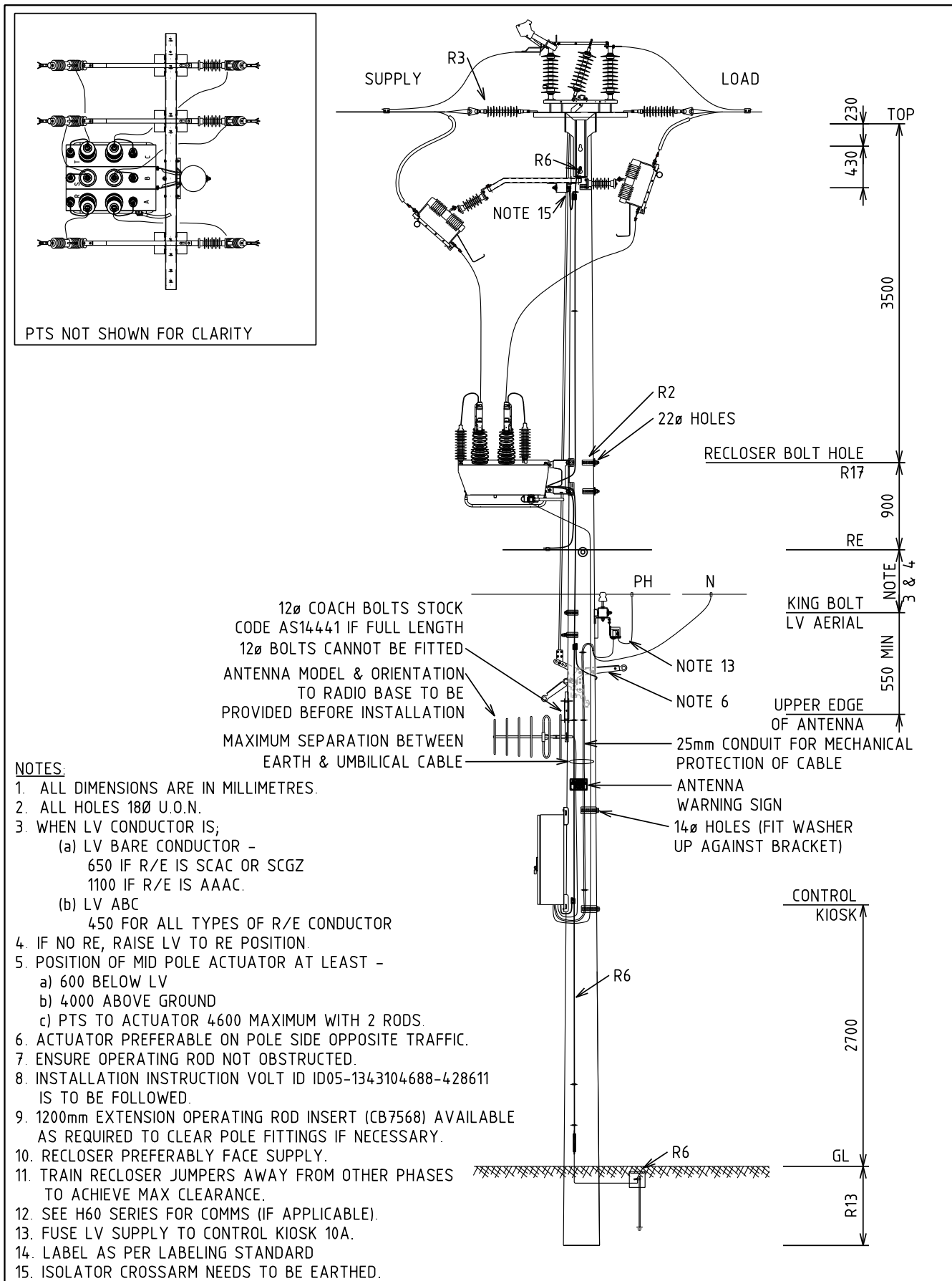
				STRUCTURE		DISTRIBUTION CONSTR. STANDARD			
				TITLE		DRAWN: JRR		DATE: 24-03-2014	
				1 PHASE IN-LINE STRAIN WITH SECTIONALISER & BY-PASS FUSE		ORIGINATED: REE		SCALE: NTS	
						CHECKED: REE		H53	
						APPROVED: GRANT STACY			
REV	DATE	DESCRIPTION	ORGO.	CHKD.	APRD.	APPROVED: GRANT STACY		REV.	ISHT.
B	06.12.13	ORIGINAL ISSUE						B	



**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 180 U.O.N.
3. POSITION OF MID POLE ACTUATOR AT LEAST -
  - a) 600 BELOW RECLOSER
  - b) 4000 ABOVE GROUND
  - c) PTS TO ACTUATOR 4600 MAXIMUM.
4. ACTUATOR PREFERABLE ON POLE SIDE OPPOSITE TRAFFIC.
5. ENSURE OPERATING ROD NOT OBSTRUCTED.
6. INSTALLATION INSTRUCTION VOLT ID 005-1343104688-428611 IS TO BE FOLLOWED.
7. 1200mm EXTENSION OPERATING ROD INSERT (CB7568) AVAILABLE AS REQUIRED TO CLEAR POLE FITTINGS IF NECESSARY.
8. RECLOSER PREFERABLY FACE SUPPLY.
9. SINGLE BUSHING TX. MAY BE INSTALLED ON SIDE OF POLE BELOW FUSE.
10. TRAIN RECLOSER & TX. JUMPERS AWAY FROM RUNNING EARTH AND OTHER PHASES TO ACHIEVE MAX CLEARANCE.
11. SEE H60 SERIES FOR COMMS (IF APPLICABLE).
12. WHERE REQUIRED INSULATION SLEEVE IC0109 WITH WIRE CLAMP TO SUIT (OG0351, OG0353)
13. FUSE LV SUPPLY TO CONTROL KIOSK 10A.
14. LABEL AS PER LABELING STANDARD.

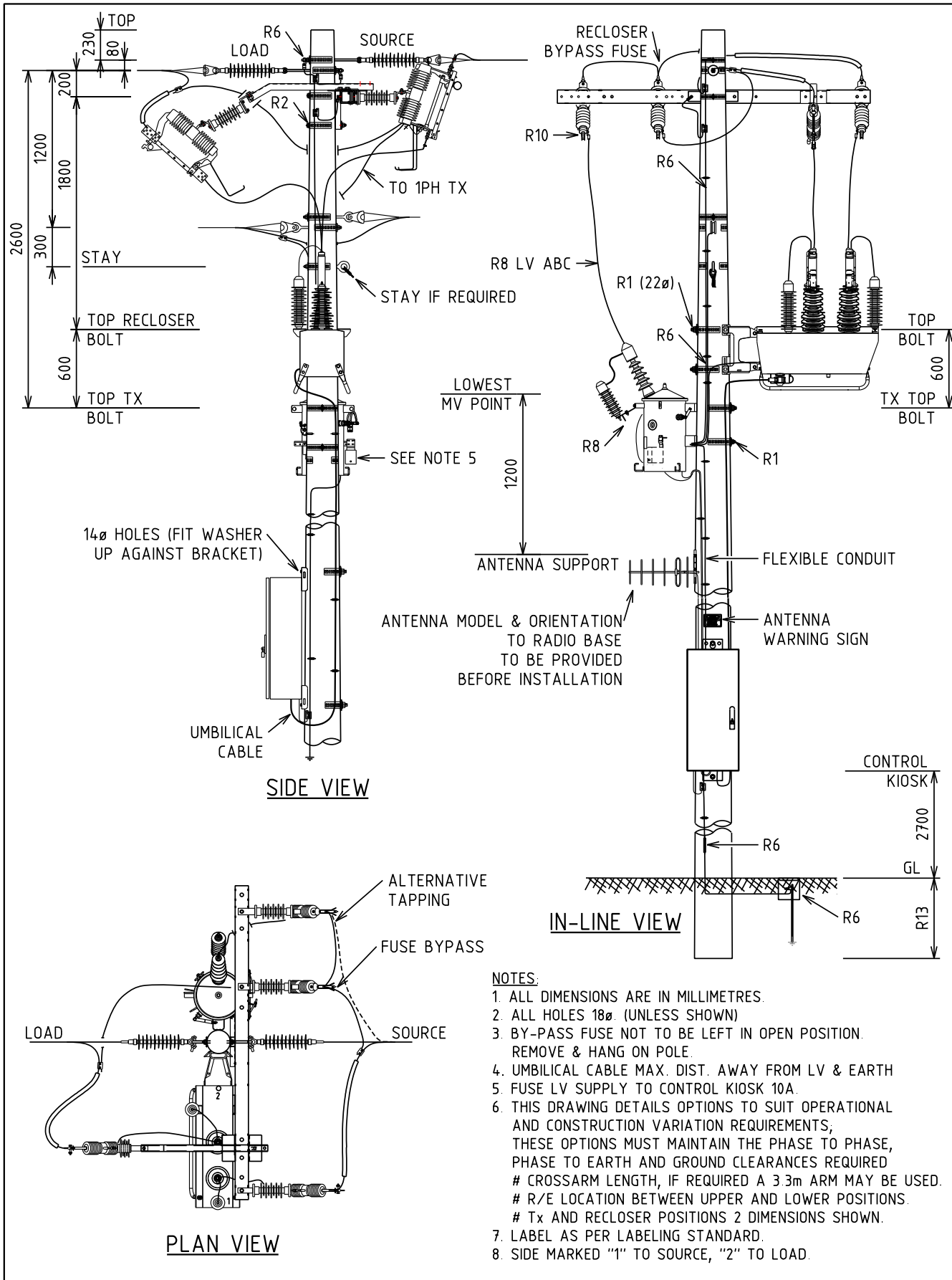
H	23.04.26	RE LOCATION AND NOTES UPDATED	NG	NMc	CO	STRUCTURE	DISTRIBUTION CONSTR. STANDARD	westernpower		
G	08.12.25	ACTUATOR LOCATION RECTIFIED. TOP POLE EARTHING ADDED. 1P CB REMOVED	CO	KT	MM					
F	21.06.19	EARTH CONNECTION METHOD MODIFIED AND NOTES	NMc	CO	GS	TITLE <b>POLE MOUNTED 3 PH RECLOSER/ LOAD BREAK SWITCH WITH BY-PASS SWITCH</b>	DRAWN: JRR	DATE: 07-10-2016	DRG. No.	
E	31.01.18	PTS TYPE CHANGED	REE	JC	GS		ORIGINATED: REE	SCALE: NTS	H61-1	
D	16.11.17	NOTES AND TRANSFORMER TYPE REVISED	REE	JC	GS		CHECKED: REE	APPROVED: GRANT STACY		REV. H
C	05.10.15	NOTE 12 ADDED	KJ	REE	CO		APPROVED:	GRANT STACY	REV. H	SHT. 1/1
REV.	DATE	DESCRIPTION	ORGD	CHKD	APRD					



**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18Ø U.O.N.
3. WHEN LV CONDUCTOR IS;
  - (a) LV BARE CONDUCTOR - 650 IF R/E IS SCAC OR SCGZ 1100 IF R/E IS AAAC.
  - (b) LV ABC 450 FOR ALL TYPES OF R/E CONDUCTOR
4. IF NO RE, RAISE LV TO RE POSITION.
5. POSITION OF MID POLE ACTUATOR AT LEAST -
  - a) 600 BELOW LV
  - b) 4000 ABOVE GROUND
  - c) PTS TO ACTUATOR 4600 MAXIMUM WITH 2 RODS.
6. ACTUATOR PREFERABLE ON POLE SIDE OPPOSITE TRAFFIC.
7. ENSURE OPERATING ROD NOT OBSTRUCTED.
8. INSTALLATION INSTRUCTION VOLT ID ID05-1343104688-428611 IS TO BE FOLLOWED.
9. 1200mm EXTENSION OPERATING ROD INSERT (CB7568) AVAILABLE AS REQUIRED TO CLEAR POLE FITTINGS IF NECESSARY.
10. RECLOSER PREFERABLY FACE SUPPLY.
11. TRAIN RECLOSER JUMPERS AWAY FROM OTHER PHASES TO ACHIEVE MAX CLEARANCE.
12. SEE H60 SERIES FOR COMMS (IF APPLICABLE).
13. FUSE LV SUPPLY TO CONTROL KIOSK 10A.
14. LABEL AS PER LABELING STANDARD
15. ISOLATOR CROSSARM NEEDS TO BE EARTHED.

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD			
G	04.05.26	ACTUATOR LOCATION RECTIFIED, NOTES UPDATED	NG	NMc	CO	TITTLE		DRAWN: JRR	DATE: 07-10-2014	DRG. No.
F	21.06.19	EARTH CONNECTION METHOD MODIFIED	NMc	CO	GS	POLE MOUNTED 3 PH RECLOSER / LOAD BREAK SWITCH WITH BY-PASS SWITCH (AERIAL LV SUPPLY)		ORIGINATED: REE	SCALE: NTS	H61-2
E	01.02.18	PTS TYPE CHANGED	REE	JC	GS			CHECKED: REE	APPROVED: GRANT STACY	
D	16.11.17	NOTES REVISED	REE	JC	GS					
C	16.06.17	NOTES REVISED	GS	NMc	GS					
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.					

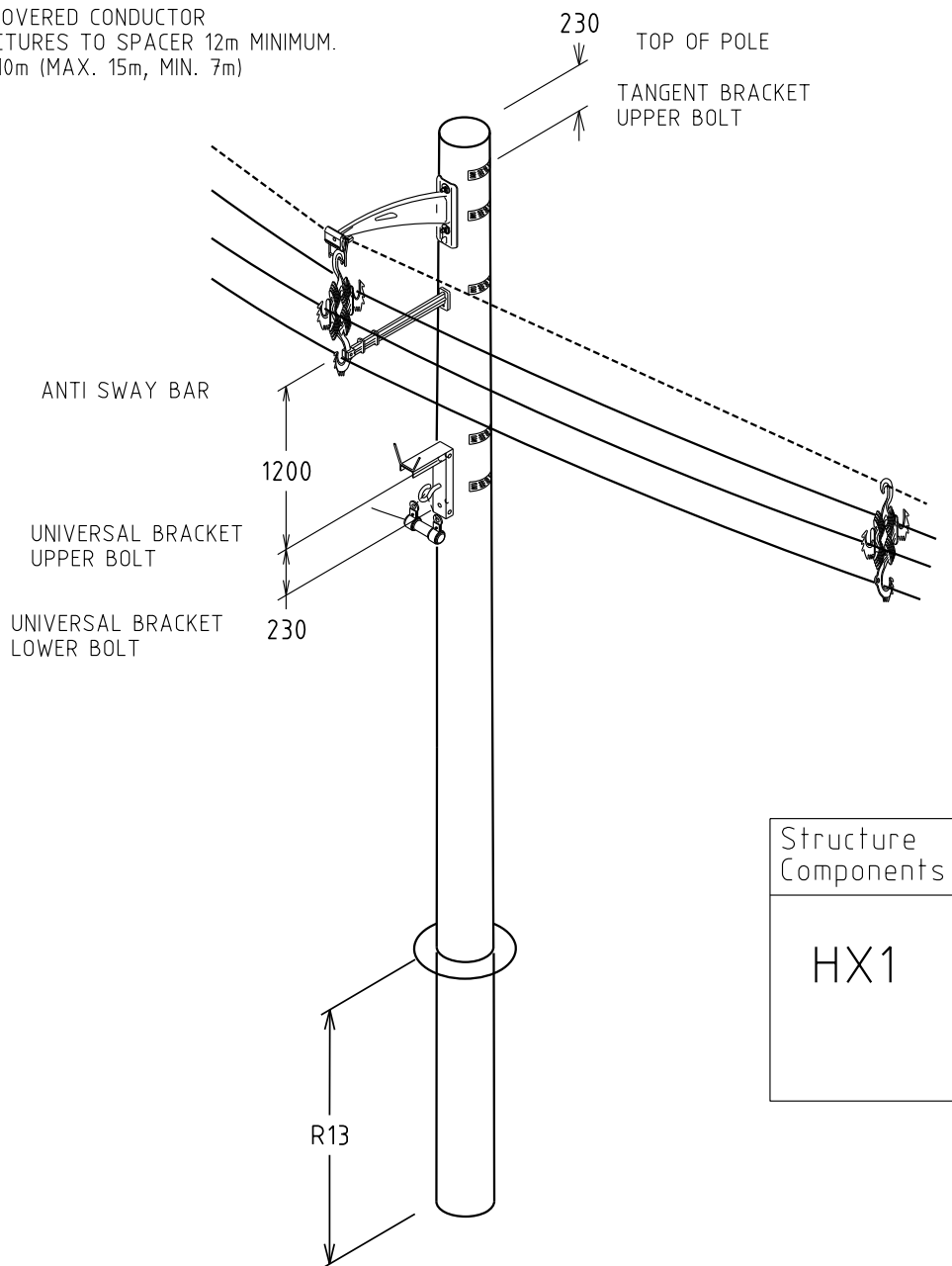


- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. ALL HOLES 18 $\phi$  (UNLESS SHOWN)
  3. BY-PASS FUSE NOT TO BE LEFT IN OPEN POSITION. REMOVE & HANG ON POLE.
  4. UMBILICAL CABLE MAX. DIST. AWAY FROM LV & EARTH
  5. FUSE LV SUPPLY TO CONTROL KIOSK 10A.
  6. THIS DRAWING DETAILS OPTIONS TO SUIT OPERATIONAL AND CONSTRUCTION VARIATION REQUIREMENTS; THESE OPTIONS MUST MAINTAIN THE PHASE TO PHASE, PHASE TO EARTH AND GROUND CLEARANCES REQUIRED  
 # CROSSARM LENGTH, IF REQUIRED A 3.3m ARM MAY BE USED.  
 # R/E LOCATION BETWEEN UPPER AND LOWER POSITIONS.  
 # Tx AND RECLOSER POSITIONS 2 DIMENSIONS SHOWN.
  7. LABEL AS PER LABELING STANDARD.
  8. SIDE MARKED "1" TO SOURCE, "2" TO LOAD.

<table border="1"> <tr> <td>F</td> <td>08.05.26</td> <td>CONDUCTOR TERMINATION CHANGED &amp; NOTES UPDATED</td> <td>NG</td> <td>NMc</td> <td>CO</td> </tr> <tr> <td>E</td> <td>10.12.25</td> <td>POLE TOP EARTHING ADDED. R5 UPDATED</td> <td>CO</td> <td>KT</td> <td>MM</td> </tr> <tr> <td>D</td> <td>27.11.17</td> <td>TRANSFORMER TYPE CHANGED</td> <td>NMc</td> <td>CO</td> <td>GS</td> </tr> <tr> <td>C</td> <td>01.09.16</td> <td>RECTIFIED THE WIRING SYSTEM IN PLAN VIEW</td> <td>REE</td> <td>JC</td> <td>GS</td> </tr> <tr> <td>B</td> <td>05.10.15</td> <td>NOTE 8 ADDED</td> <td>KJ</td> <td>REE</td> <td>CO</td> </tr> <tr> <td>A</td> <td>22.04.15</td> <td>ORIGINAL ISSUE</td> <td>REE</td> <td>REE</td> <td>GS</td> </tr> <tr> <td>REV.</td> <td>DATE</td> <td>DESCRIPTION</td> <td>ORGD.</td> <td>CHKD.</td> <td>APRD.</td> </tr> </table>			F	08.05.26	CONDUCTOR TERMINATION CHANGED & NOTES UPDATED	NG	NMc	CO	E	10.12.25	POLE TOP EARTHING ADDED. R5 UPDATED	CO	KT	MM	D	27.11.17	TRANSFORMER TYPE CHANGED	NMc	CO	GS	C	01.09.16	RECTIFIED THE WIRING SYSTEM IN PLAN VIEW	REE	JC	GS	B	05.10.15	NOTE 8 ADDED	KJ	REE	CO	A	22.04.15	ORIGINAL ISSUE	REE	REE	GS	REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.	<p align="center"><b>STRUCTURE</b></p> <p><b>TITLE</b>                  1 PHASE RECLOSER / LOAD BREAK SWITCH                  BY-PASS ISOLATORS/STRAIN TERMINATION                  WITH SINGLE PHASE Tx SUPPLY</p>		<p><b>DISTRIBUTION CONSTR. STANDARD</b></p> <p align="right"><b>westernpower</b></p>	
F	08.05.26	CONDUCTOR TERMINATION CHANGED & NOTES UPDATED	NG	NMc	CO																																											
E	10.12.25	POLE TOP EARTHING ADDED. R5 UPDATED	CO	KT	MM																																											
D	27.11.17	TRANSFORMER TYPE CHANGED	NMc	CO	GS																																											
C	01.09.16	RECTIFIED THE WIRING SYSTEM IN PLAN VIEW	REE	JC	GS																																											
B	05.10.15	NOTE 8 ADDED	KJ	REE	CO																																											
A	22.04.15	ORIGINAL ISSUE	REE	REE	GS																																											
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.																																											
<table border="1"> <tr> <td>DRAWN:</td> <td>JRR</td> <td>DATE:</td> <td>07-10-2014</td> <td>DRG. No.</td> <td rowspan="3">H63</td> </tr> <tr> <td>ORIGINATED:</td> <td>REE</td> <td>SCALE:</td> <td>NTS</td> <td></td> </tr> <tr> <td>CHECKED:</td> <td>REE</td> <td>APPROVED:</td> <td>GRANT STACY</td> <td>REV. F</td> </tr> <tr> <td colspan="4"></td> <td>SHT.</td> <td>1/1</td> </tr> </table>			DRAWN:	JRR	DATE:	07-10-2014	DRG. No.	H63	ORIGINATED:	REE	SCALE:	NTS		CHECKED:	REE	APPROVED:	GRANT STACY	REV. F					SHT.	1/1																								
DRAWN:	JRR	DATE:	07-10-2014	DRG. No.	H63																																											
ORIGINATED:	REE	SCALE:	NTS																																													
CHECKED:	REE	APPROVED:	GRANT STACY	REV. F																																												
				SHT.	1/1																																											

# HV HENDRIX

SPANNING: OVERHEAD COVERED CONDUCTOR  
 - TERMINATION STRUCTURES TO SPACER 12m MINIMUM.  
 - SPACER INTERVAL 10m (MAX. 15m, MIN. 7m)



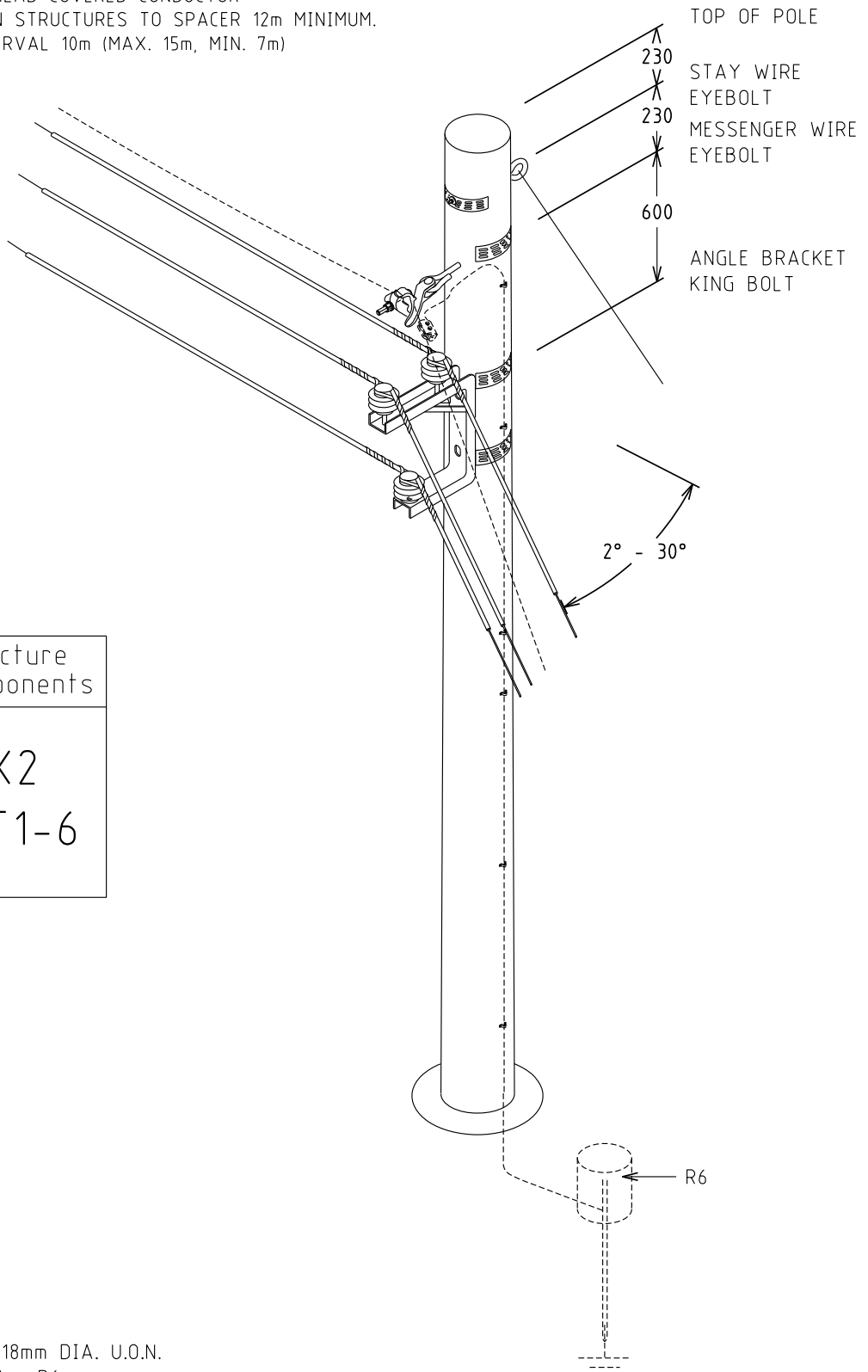
Structure Components  
 HX1

NOTE:

1. ALL HOLES 18mm DIA. U.O.N.
2. DOWNEARTH - R6
3. MAXIMUM DISTANCE BETWEEN DOWNEARTHS - 150m.

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD					
				TITLE			DRAWN: JRR		DATE: 24-03-2016		ORG. No.	
				INTERMEDIATE POLE 0° - 2°			ORIGINATED:		SCALE: NTS		H100	
							CHECKED: REE		APPROVED: GRANT STACY			
							APPROVED:				SHT.	
R. No.	DATE	DESCRIPTION	ORGD.	CHED.	APRD.							

SPANNING: OVERHEAD COVERED CONDUCTOR  
 - TERMINATION STRUCTURES TO SPACER 12m MINIMUM.  
 - SPACER INTERVAL 10m (MAX. 15m, MIN. 7m)

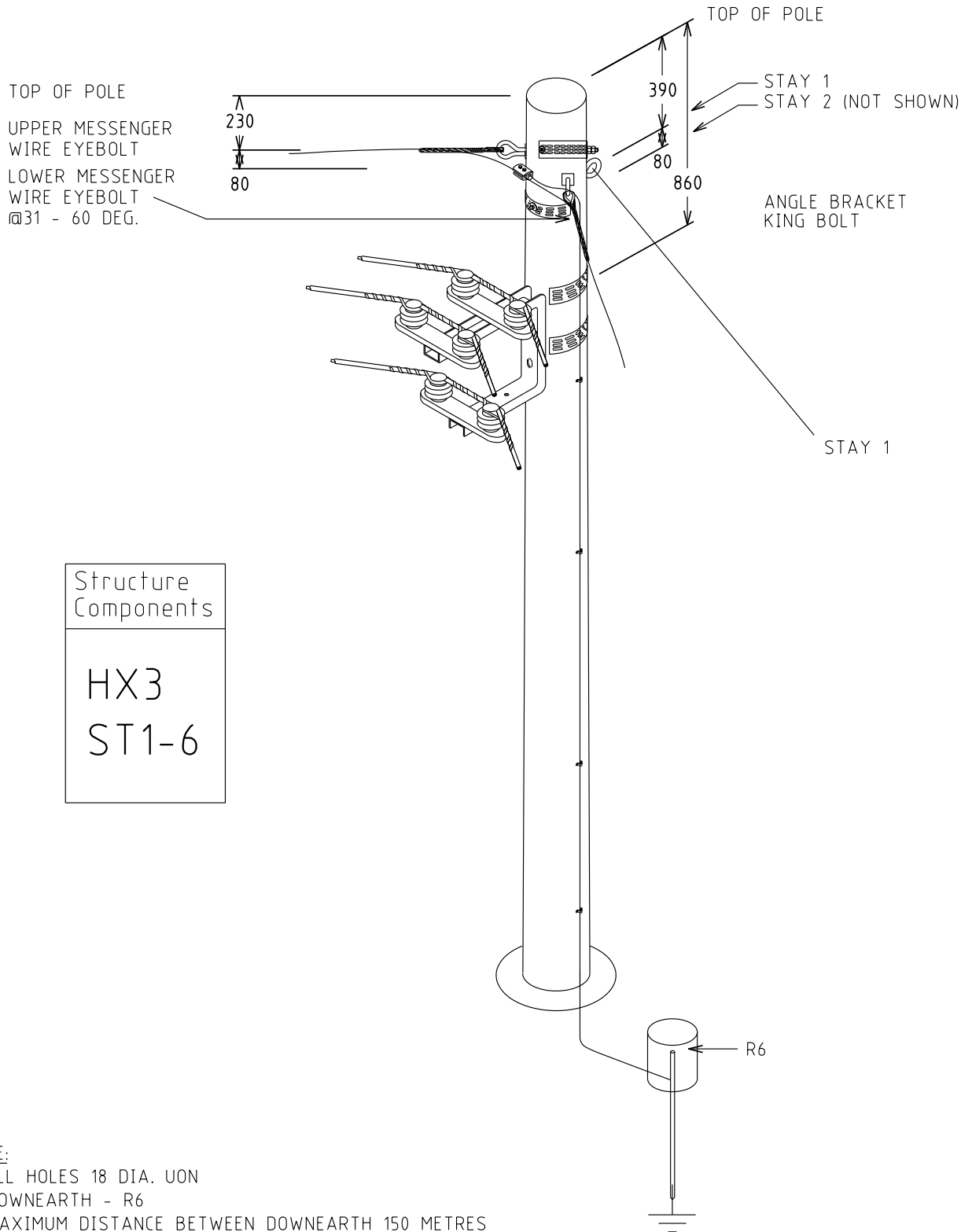


Structure Components
HX2
ST1-6

NOTE:  
 1. ALL HOLES 18mm DIA. U.O.N.  
 2. DOWNEARTH - R6  
 3. MAXIMUM DISTANCE BETWEEN DOWNEARTHS 150 METRES

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD			
D	09.01.15	TITLE REVISED		AK	DVT	GS	DRAWN: JRR		DATE: 19-03-2014	ORG. No.
C	24.10.14	DISPERSION PLATE ADDED		REE	REE	GS	ORIGINATED:		SCALE: NTS	H101
B	19.03.14	FORMAT CHANGED AND DISTANCE BETWEEN EYEBOLT & KING BOLT INCREASED TO 600				GS	CHECKED: REE			
A	22.12.11	ORIGINAL ISSUE					APPROVED: GRANT STACY		REV. D	SHT.
R. No.	DATE	DESCRIPTION		ORGD.	CHED.	APRD.				

SPANNING: OVERHEAD COVERED CONDUCTOR  
 - TERMINATION STRUCTURES TO SPACER 12m MINIMUM.  
 - SPACER INTERVAL 10m (MAX. 15m, MIN. 7m)

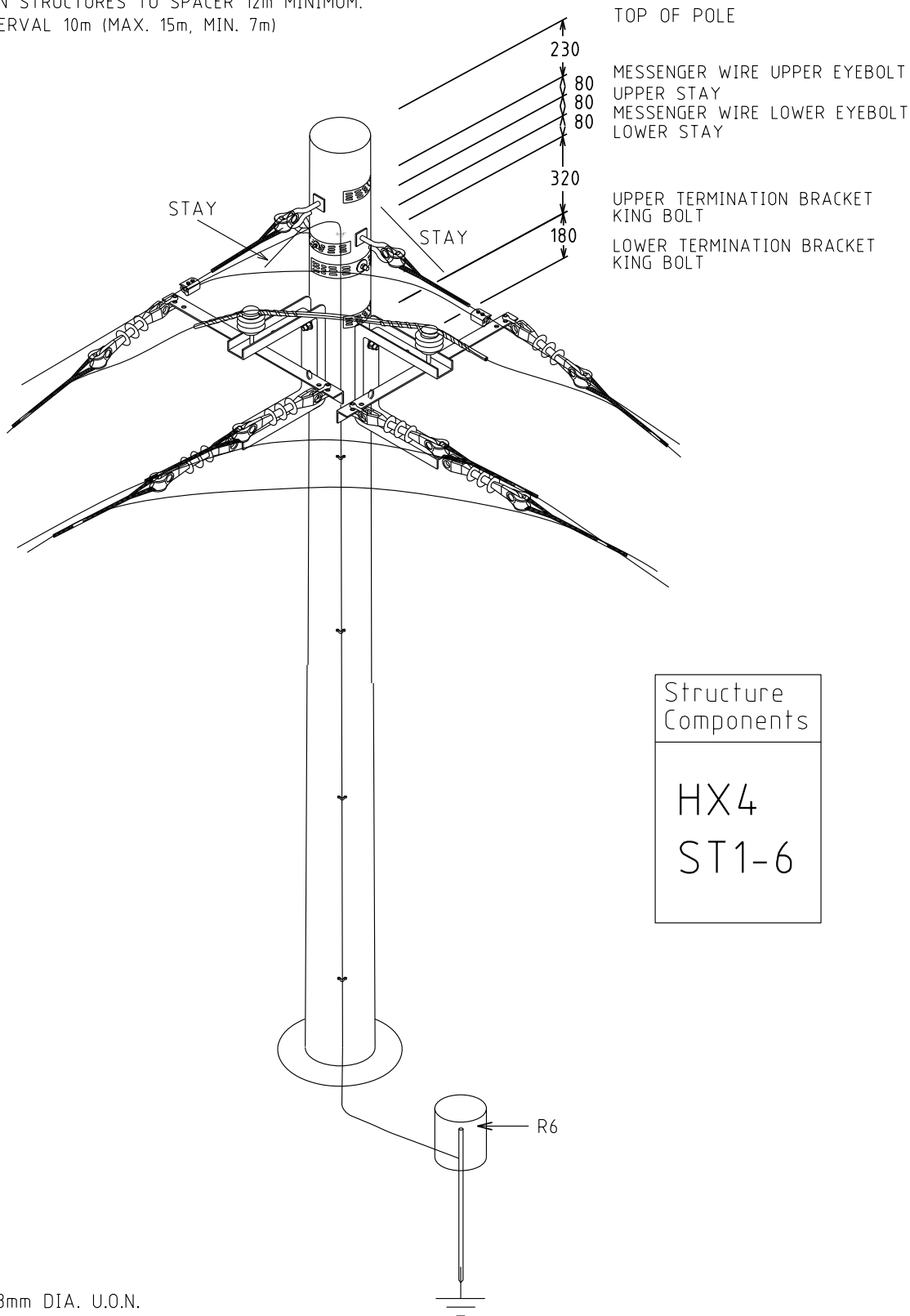


Structure Components
HX3
ST1-6

NOTE:  
 1. ALL HOLES 18 DIA. UON  
 2. DOWNEARTH - R6  
 3. MAXIMUM DISTANCE BETWEEN DOWNEARTH 150 METRES

				STRUCTURE		DISTRIBUTION CONSTR. STANDARD		westernpower	
				TITLE		DRAWN: JRR DATE: 24-03-2016		ORG. No.	
				INTERMEDIATE ANGLE POLE 31° - 60°		ORIGINATED: SCALE: NTS		H102	
						CHECKED: REE		REV. C	
						APPROVED: GRANT STACY		SHT.	
R. No.	DATE	DESCRIPTION	ORGD.	CHED.	APRD.				

SPANNING: OVERHEAD COVERED CONDUCTOR  
 - TERMINATION STRUCTURES TO SPACER 12m MINIMUM.  
 - SPACER INTERVAL 10m (MAX. 15m, MIN. 7m)

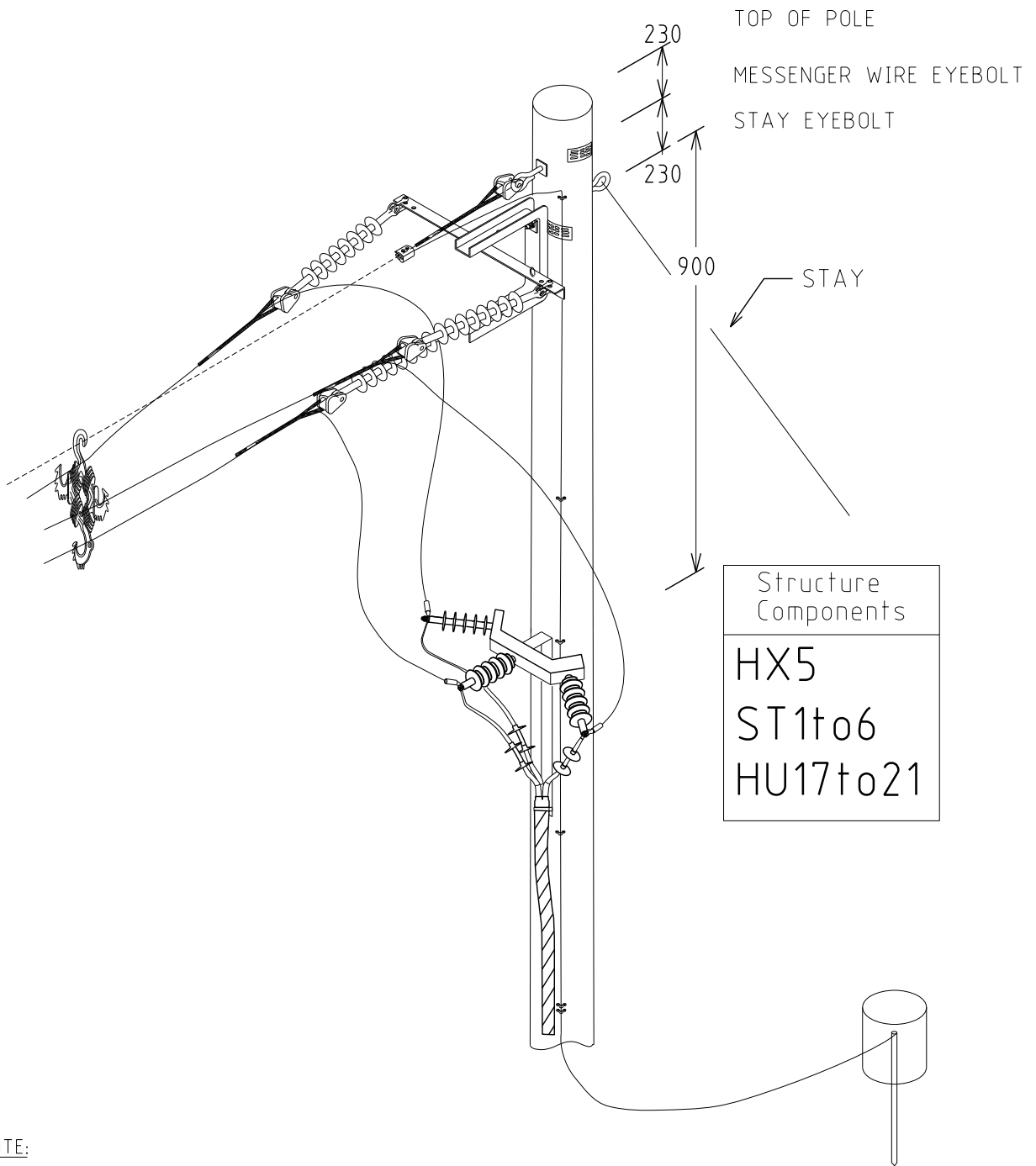


Structure Components  
 HX4  
 ST1-6

NOTE:  
 1. ALL HOLES 18mm DIA. U.O.N.  
 2. DOWNEARTH - R6  
 3. MAXIMUM DISTANCE BETWEEN DOWNEARTHS 150 METRES

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD					
				TITLE			DRAWN: JRR		DATE: 24-03-2014		ORG. No.	
				DOUBLE TERMINATION 61° - 90°			ORIGINATED:		SCALE: NTS		H103	
							CHECKED: REE		APPROVED: GRANT STACY		REV. D	
											SHT.	
R. No.	DATE	DESCRIPTION	ORGD.	CHED.	APRD.							

SPANNING: OVERHEAD COVERED CONDUCTOR  
 - TERMINATION STRUCTURES TO SPACER 12m MINIMUM.  
 - SPACER INTERVAL 10m (MAX. 15m, MIN. 7m)

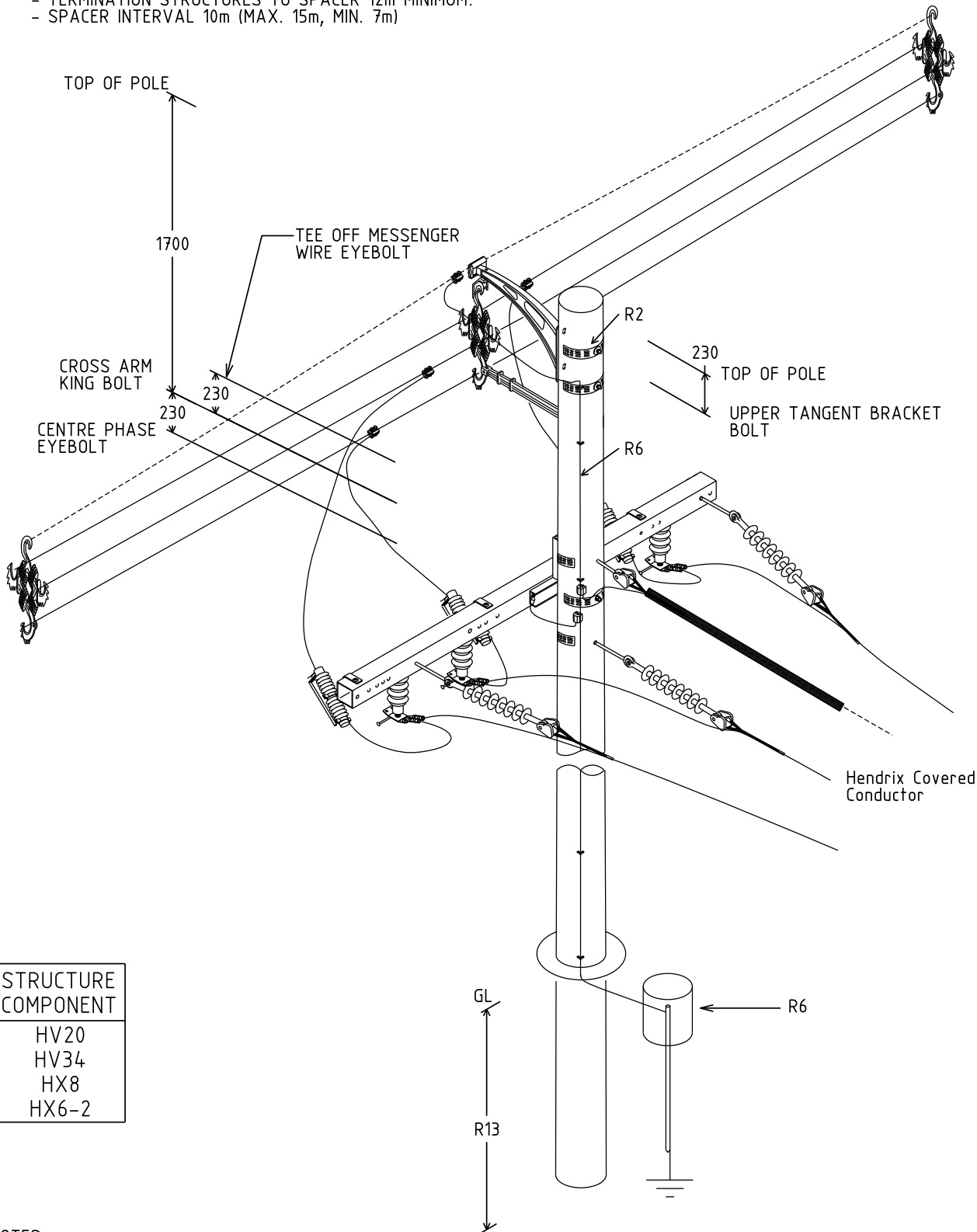


**NOTE:**

1. ALL HOLES 18mm DIA. U.O.N.
2. DOWNEARTH - R6
3. MAXIMUM DISTANCE BETWEEN DOWNEARTHS 150 METRES
4. WIDEN HOLE IN BRACKET FOR STAY EYE BOLT

				STRUCTURE		DISTRIBUTION CONSTRUCTION STANDARDS			
				TERMINATION POLE FOR CABLE CONNECTION		DRAWN: JRR DATE: 24-03-2014 DRG. No. H104			
						CHECKED: REE SCALE: NTS			
						APPROVED: GRANT STACY DATE: 24-03-2014		REV. B SHT.	
REV. No.	DATE	DESCRIPTION	APPRD.						
B	16.07.2014	FORMAT CHANGED AND DISPERSION PLATE ADDED	GS						
A	03.02.2012	ORIGINAL ISSUE							

SPANNING: OVERHEAD COVERED CONDUCTOR  
 - TERMINATION STRUCTURES TO SPACER 12m MINIMUM.  
 - SPACER INTERVAL 10m (MAX. 15m, MIN. 7m)



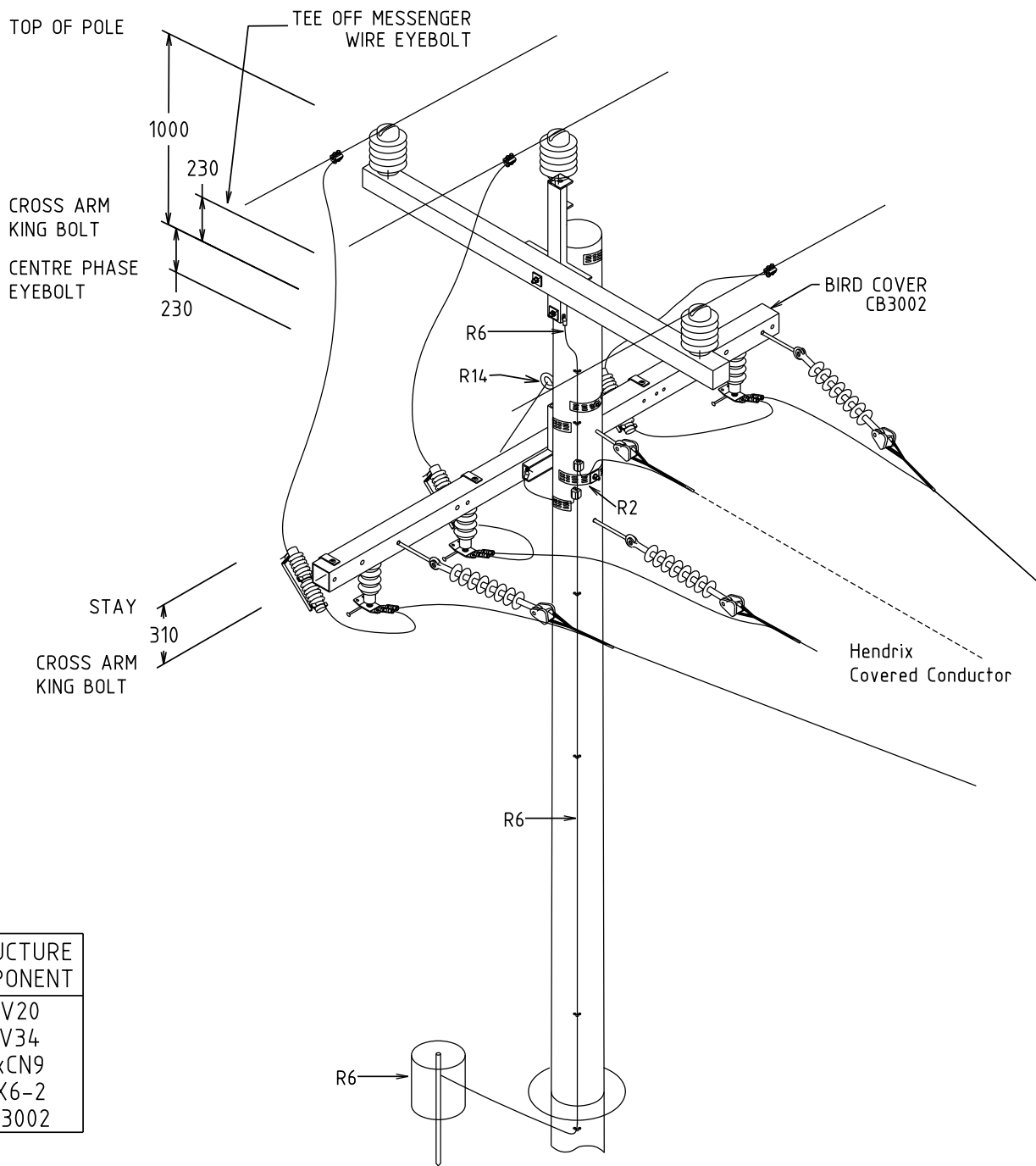
STRUCTURE COMPONENT
HV20
HV34
HX8
HX6-2

**NOTES:**

1. ALL HOLES 18mm DIA. U.O.N.
2. DOWNEARTH - R6
3. MAXIMUM DISTANCE BETWEEN DOWNEARTHS 150 METRES

				STRUCTURE		DISTRIBUTION CONSTR. STANDARD					
				TITLE		DRAWN: JRR		DATE: 24-03-2014		ORG. No.	
				INTERMEDIATE TEE OFF FROM EXISTING COVERED CONDUCTOR WITH DOF DRILLING DETAILS		ORIGINATED:		SCALE: NTS		H105	
						CHECKED: REE		APPROVED: GRANT STACY			
										SHT. 1/1	
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.						

SPANNING: OVERHEAD COVERED CONDUCTOR  
 - TERMINATION STRUCTURES TO SPACER 12m MINIMUM.  
 - SPACER INTERVAL 10m (MAX. 15m, MIN. 7m)



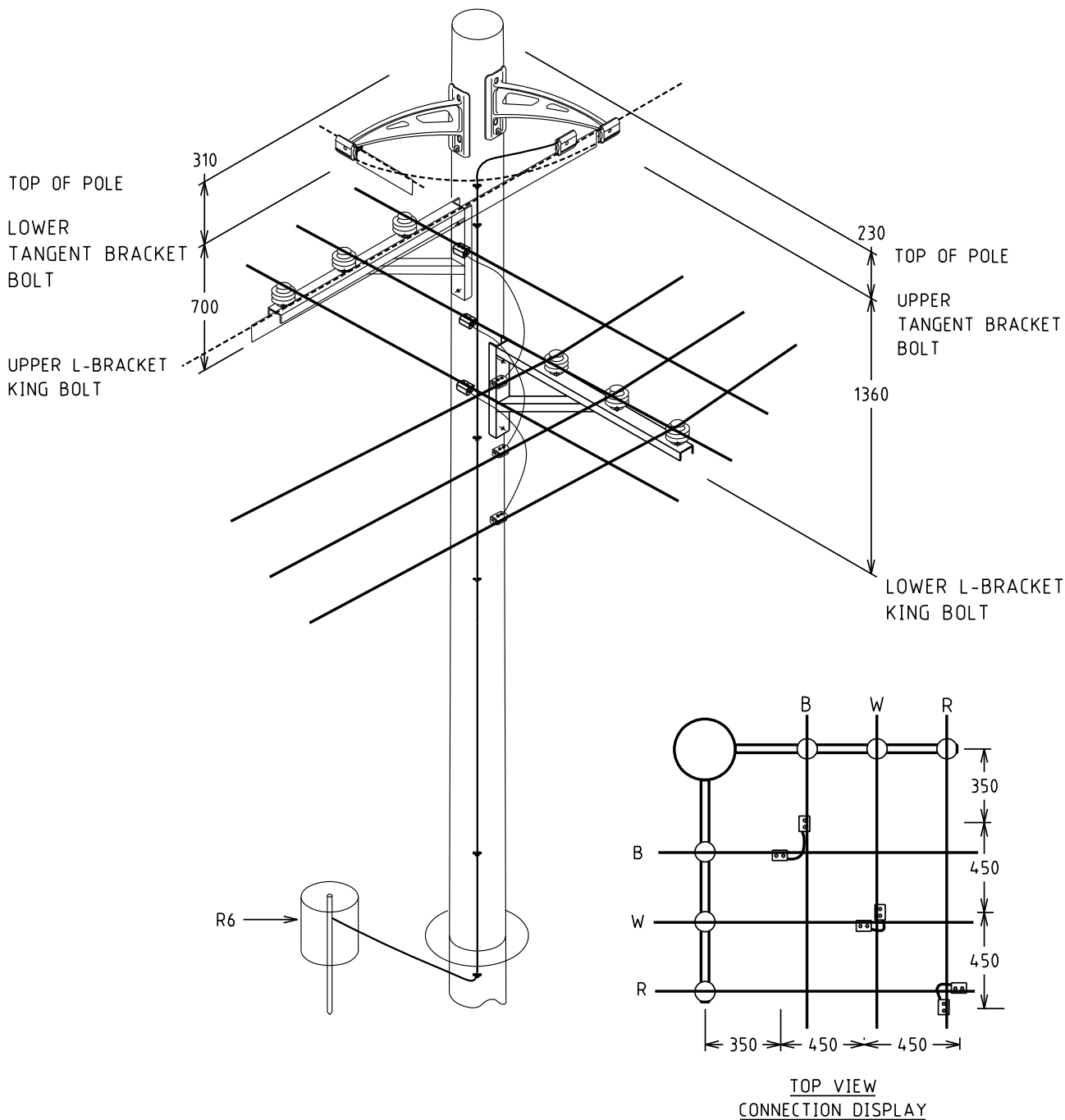
STRUCTURE COMPONENT
HV20
HV34
3xCN9
HX6-2
CB3002

NOTES:

1. ALL HOLES 18φ. U.O.N.
2. MAXIMUM DISTANCE BETWEEN DOWNEARTHS 150 METRES

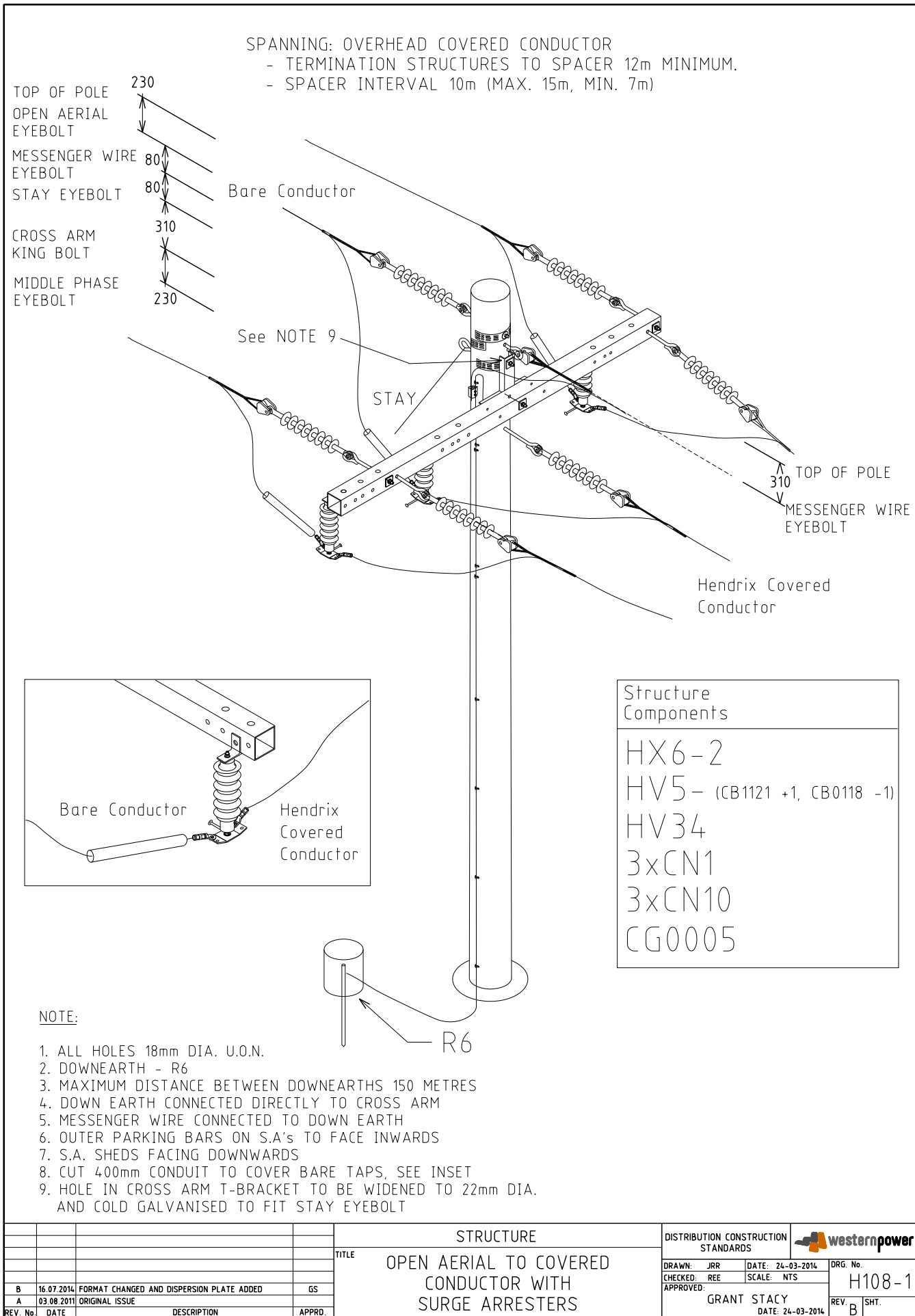
				STRUCTURE			DISTRIBUTION CONSTR. STANDARD		westernpower			
				TITLE							H106	
				INTERMEDIATE TEE OFF FROM EXISTING BARE CONDUCTOR WITH D.O.F							1/1	
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.	DRAWN:	JRR	DATE:	24-03-2014	ORG. No.		
E	14.05.26	POLE TOP EARTHING ADDED STAY WIRE ADDED	NG	NMc	CO	ORIGINATED:		SCALE:	NTS			
D	16.01.15	BIRD COVER ADDED	JC	REE	GS	CHECKED:	AK	APPROVED:	GRANT STACY	REV.	E	
C	16.07.14	FORMAT CHANGED AND DISPERSION PLATE ADDED			GS					SHT.	1/1	
B	03.08.11	ORIGINAL ISSUE										

SPANNING: OVERHEAD COVERED CONDUCTOR  
 - TERMINATION STRUCTURES TO SPACER 12m MINIMUM.  
 - SPACER INTERVAL 10m (MAX. 15m, MIN. 7m)

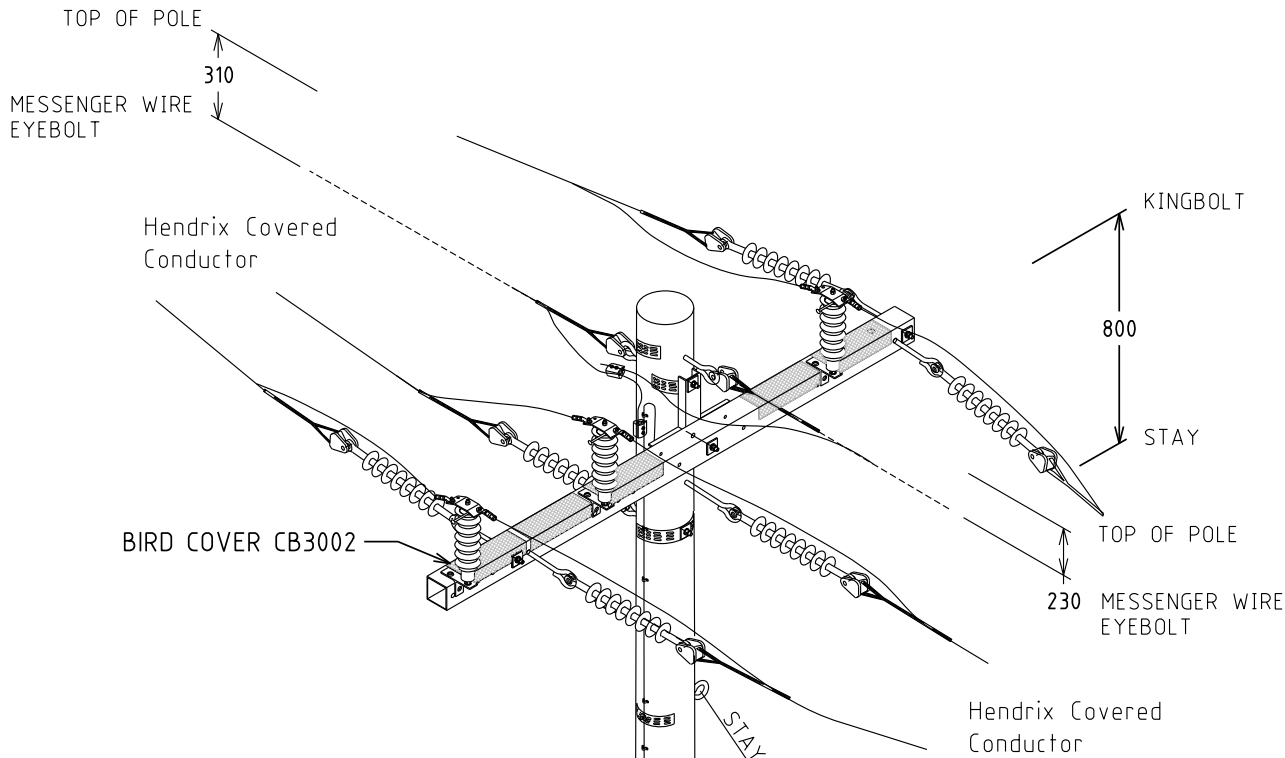


- NOTE:
1. ALL DIMENSIONS ARE IN MILLIMETRES.
  2. ALL HOLES 18mm DIA. U.O.N.
  3. MAXIMUM DISTANCE BETWEEN DOWNEARTHS 150m

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD			
				TITLE			DRAWN: JRR		DATE: 24-03-2014	
				INTERMEDIATE POLE CROSSING			ORIGINATED: REE		SCALE: NTS	
							CHECKED: REE		APPROVED: GRANT STACY	
							REV. D		SHT.	
REV	DATE	DESCRIPTION	ORGO	CHKD	APRD					
D	19.12.17	DISPERSION PLATE REMOVED AND EARTHING MODIFIED	NMc	CO	GS			DRG. No. H107		
C	27.10.14	DISPERSION PLATE ADDED	REE	REE	GS					
B	16.07.14	FORMAT CHANGED AND SPANNING CHANGED								
A	22.12.11	ORIGINAL ISSUE								



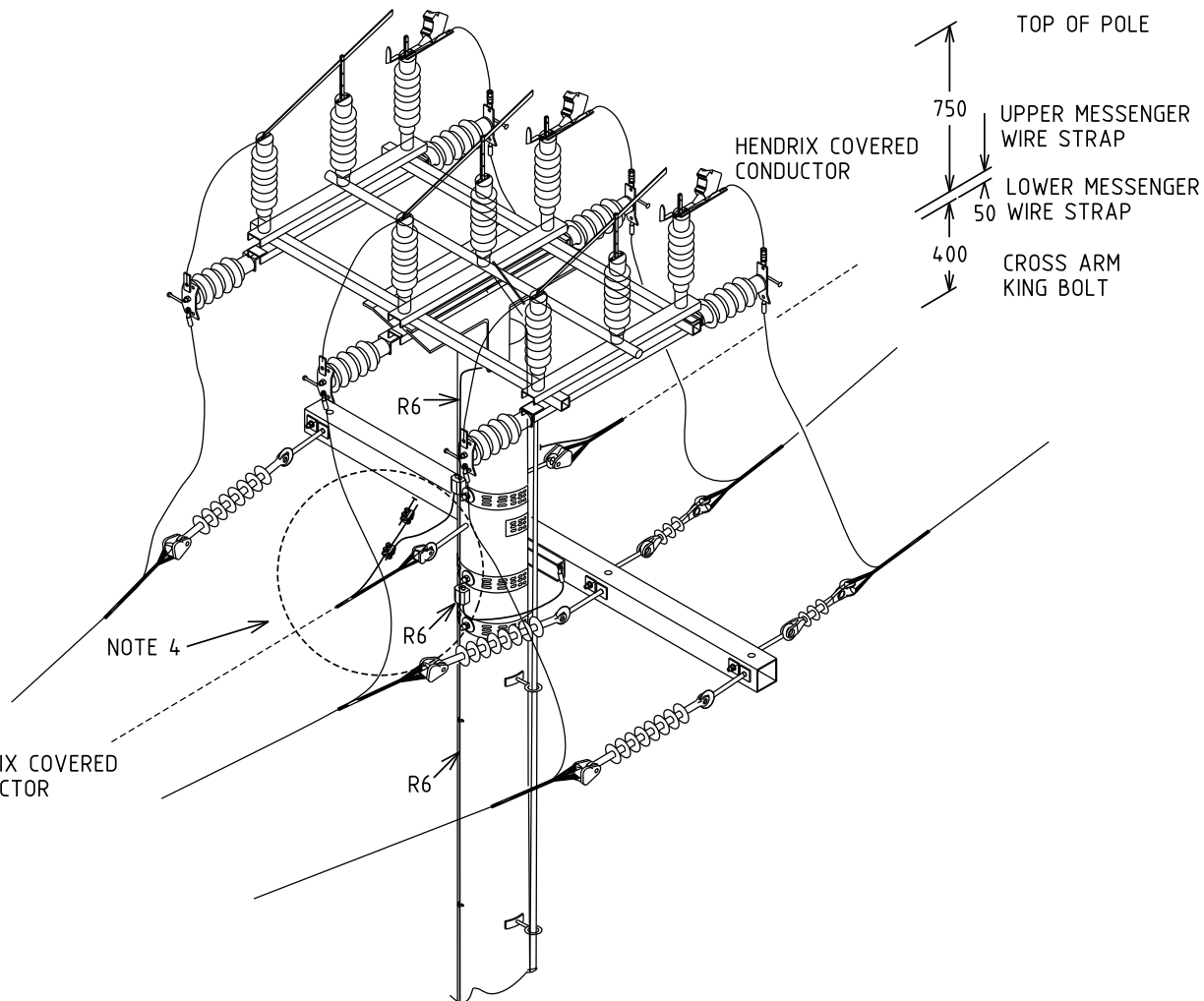
SPANNING: OVERHEAD COVERED CONDUCTOR  
 - TERMINATION STRUCTURES TO SPACER 12m MINIMUM.  
 - SPACER INTERVAL 10m (MAX. 15m, MIN. 7m)



Structure Components	
HX6-2	
HV5-(CB1121 +1, CB0118 -1)	
HV34	
3xIC0108	
3xCT0015	
3xCN10	
3xCN9	
5xCB3002	

- NOTE:
1. ALL HOLES 18mm DIA. U.O.N.
  2. DOWNEARTH - R6
  3. MAXIMUM DISTANCE BETWEEN DOWNEARTHS 150m.
  4. DOWN EARTH CONNECTE DIRECTLY TO T-BRACKET
  5. MESSENGER WIRE CONNECTED TO DOWN EARTH
  6. OUTER PARKING BARS ON S.A's TO FACE INWARDS
  7. S.A SHEDS FACING DOWNWARDS.
  8. IF DEVIATION ANGLE IS MORE THAN 2°, STAY MUST BE PROVIDED FOR DEVIATION ANGLE UPTO 15° UNLESS A REVISED EMBEDMENT DEPTH IS FOLLOWED.
  9. MINIMUM 6kN RATING POLE TO BE USED.

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD					
				TITLE			DRAWN: JRR		DATE: 24-03-2016		ORG. No.	
				STRAIN COVERED CONDUCTOR WITH SURGE ARRESTERS			ORIGINATED:		SCALE: NTS		H108-2	
							CHECKED: AK		APPROVED: GRANT STACY			
							APPROVED:				SHT.	
R. No.	DATE	ORIGINAL ISSUE	DESCRIPTION	ORGD.	CHED.	APRD.						



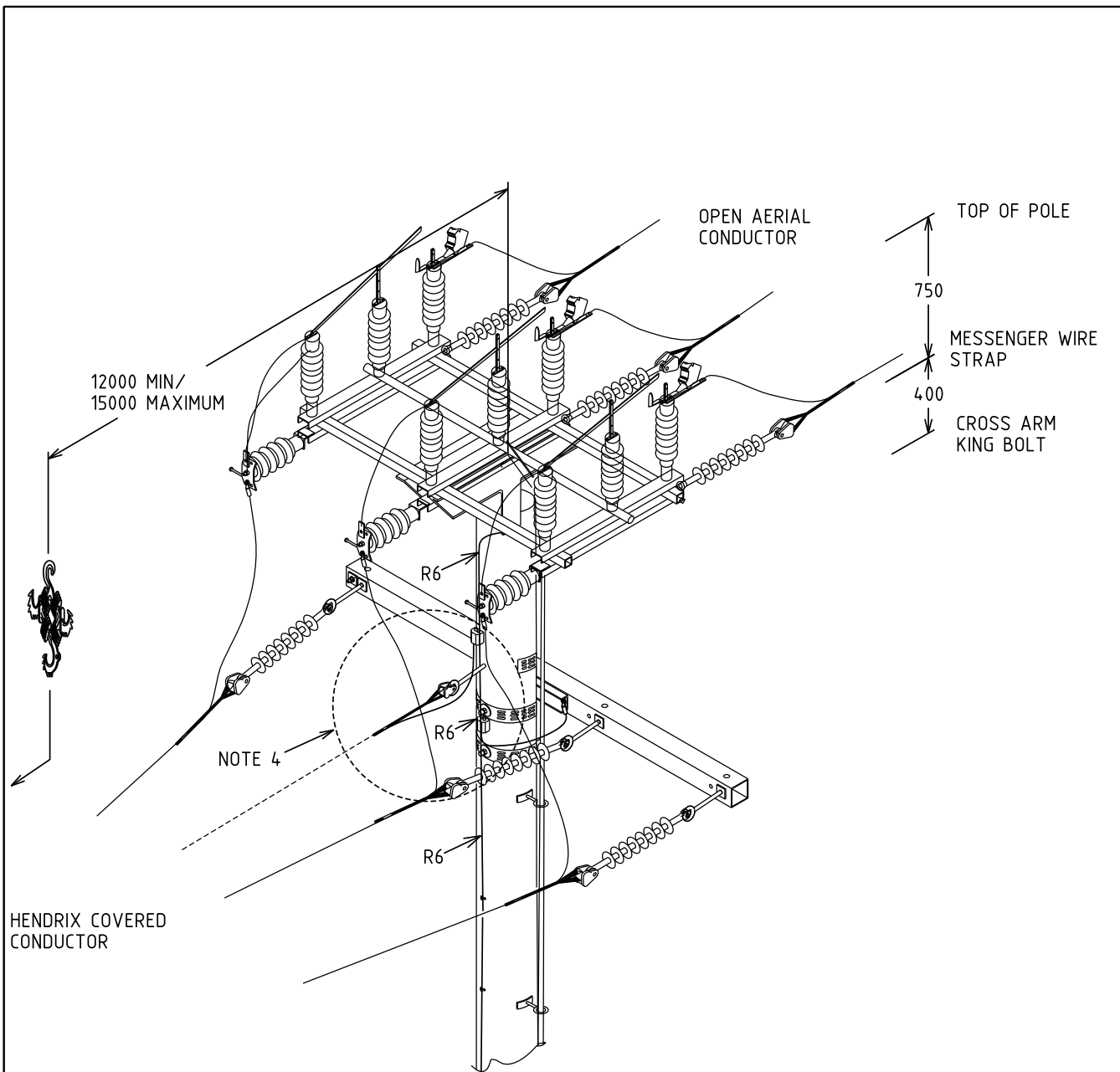
STRUCTURE COMPONENT

HV19  
HX07

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18φ U.O.N.
3. MAXIMUM DISTANCE BETWEEN DOWNEARTHS 150m
4. TRAIN CENTRE PHASE CONDUCTOR TO MAINTAIN 400 CLEARANCE FROM MESSENGER WIRE.
5. REFER TO DWG. H12 FOR POLE TOP SWITCH AND MID POLE ACTUATOR INSTALLATION DETAILS.
6. TERMINATION STRUCTURES TO SPACER MAX. 15m, MIN. 12m.

				STRUCTURE			DISTRIBUTION CONSTR. STANDARD					
				TITLE			DRAWN: JRR		DATE: 24-03-2014		ORG. No.	
				PTS COVERED CONDUCTOR TERMINATED MESSENGER WIRE			ORIGINATED:		SCALE: NTS		H109	
							CHECKED: REE		APPROVED: GRANT STACY			
											SHT. 1/1	
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.							
E	14.05.26	POLE TOP EARTHING ADDED		NG	NMc	CO						
D	24.09.19	TITLE CHANGED AND PTS UPDATED		REE	AN	GS						
C	16.07.14	FORMAT CHANGED AND DISPERSION PLATE ADDED				GS						
B	28.11.11	ORIGINAL ISSUE										

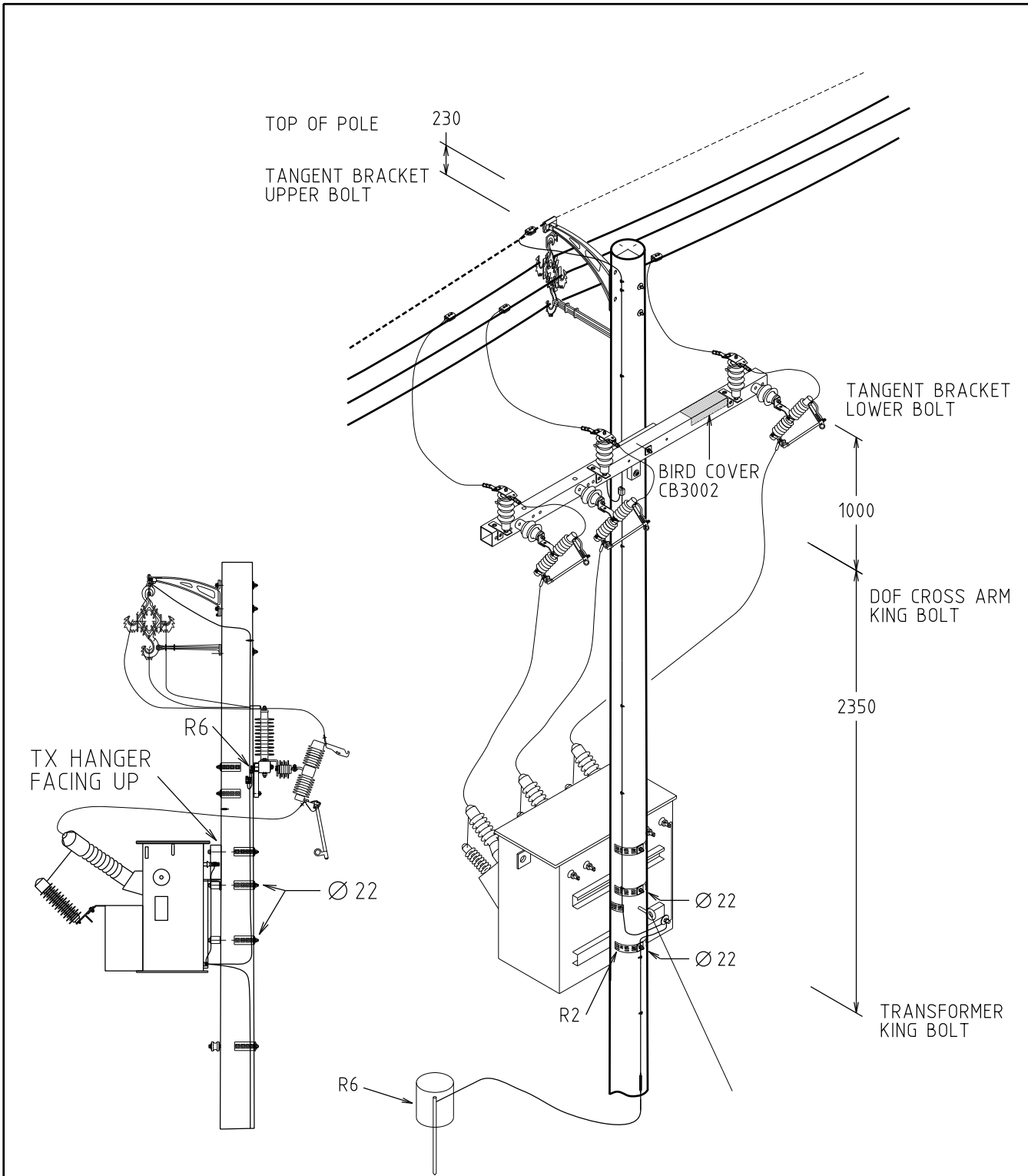


STRUCTURE COMPONENT
HV19
CN01
HX06-1

**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18φ U.O.N.
3. MAXIMUM DISTANCE BETWEEN DOWNEARTHS 150m
4. TRAIN CENTRE PHASE CONDUCTOR TO MAINTAIN 400 CLEARANCE FROM MESSENGER WIRE.
5. REFER TO DWG. H12 FOR POLE TOP SWITCH AND MID POLE ACTUATOR INSTALLATION DETAILS.
6. TERMINATION STRUCTURES TO SPACER MAX. 15m, MIN. 12m.

				STRUCTURE		DISTRIBUTION CONSTR. STANDARD		westernpower				
				TITLE		DRAWN: JRR		DATE: 24-03-2014		DRG. No.		
				PTS COVERED CONDUCTOR TO OPEN AERIAL		ORIGINATED:		SCALE: NTS		H110		
						CHECKED: REE		APPROVED: GRANT STACY		REV. E		
										SHT. 1/1		
REV.	DATE	DESCRIPTION	ORGD.	CHKD.	APRD.							
E	14.05.26	POLE TOP EARTHING ADDED		NG	NMc	GS						
D	24.09.19	TITLE CHANGED AND PTS UPDATED		REE	AN	GS						
C	16.07.14	FORMAT CHANGED AND DISPERSION PLATE ADDED				GS						
B	28.11.11	ORIGINAL ISSUE										

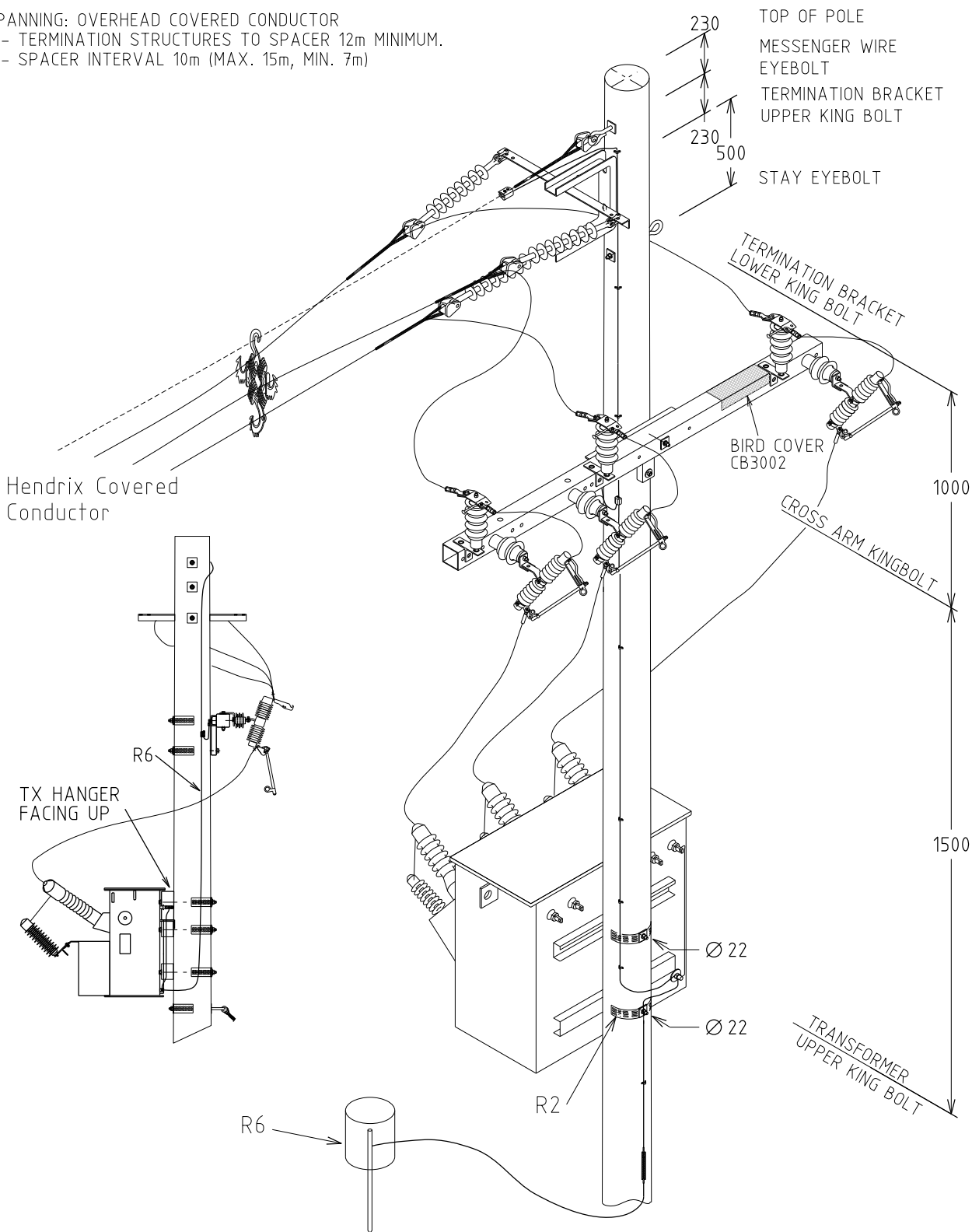


**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL HOLES 18mm DIA. U.O.N.
3. MAXIMUM DISTANCE BETWEEN DOWNEARTHS - 150m

				STRUCTURE		DISTRIBUTION CONSTR. STANDARD				
G	10.12.25	POLE TOP EARTHING ADDED. R5 UPDATED		CO	KT	MM	TITLE	DRAWN: JRR	DATE: 24-03-2014	DRG. No.
F	16.11.18	EARTHING SYSTEM MODIFIED & Tx MODEL CHANGED		NMc	NN	GS	<b>INTERMEDIATE TRANSFORMER COVERED CONDUCTOR</b>	ORIGINATED:	SCALE: NTS	<b>H111</b>
E	19.01.15	BIRD COVER ADDED		JC	REE	GS		CHECKED: REE		
D	16.07.14	FORMAT CHANGED AND DISPERSION PLATE ADDED				GS		APPROVED:		
C	21.05.12	ORIGINAL ISSUE								
REV.	DATE	DESCRIPTION		ORGD.	CHKD.	APRD.		GRANT STACY	REV. G	SHT. 1/1

SPANNING: OVERHEAD COVERED CONDUCTOR  
 - TERMINATION STRUCTURES TO SPACER 12m MINIMUM.  
 - SPACER INTERVAL 10m (MAX. 15m, MIN. 7m)



- NOTES:  
 1. ALL DIMENSIONS ARE IN MILLIMETRES.  
 2. ALL HOLES 18Ø U.O.N.  
 3. MAXIMUM DISTANCE BETWEEN DOWNEARTHS 150m.

				STRUCTURE		DISTRIBUTION CONSTR. STANDARD		westernpower		
G	10.12.25	POLE TOP EARTHING ADDED		CO	KT	MM	TITLE			
F	16.11.18	EARTHING SYSTEM MODIFIED & Tx MODEL CHANGED		NMc	NN	GS	TERMINATION TRANSFORMER WITH DROP OUT FUSE			
E	19.01.15	BIRD COVER ADDED		JC	REE	GS	DRAWN: JRR		DATE: 24-03-2014	DRG. No.
D	17.06.14	FORMAT CHANGED AND CLARIFICATION OF DIMENSION				GS	ORIGINATED:		SCALE: NTS	H112
C	21.05.12	ORIGINAL ISSUE				GS	CHECKED: REE		APPROVED: GRANT STACY	
REV.	DATE	DESCRIPTION		ORGD.	CHKD.	APRD.			SHT.	1/1