

## MATERIAL SPECIFICATION

VOCAB NUMBER	ITEM DESCRIPTION
132085	<p>STAYROD AND BOW</p> <p>2745 X M20, GALVANISED</p> <p>LIGHT DUTY</p>

### SPECIFICATION DETAILS

**1. MATERIALS:**

Steel of Property class 4.6 to AS 1111; and grade S1020 – 1040 to AS 1442.

**2. DESCRIPTION:**

Dimension as shown on drawing. Minimum failing load of assembly 88KN.  
Threads shall be ISO coarse pitch to tolerance 8g as in AS1275.

**3. NUTS AND BOLTS:**

Nuts shall be ISO metric double chamfered class 5 to AS 1112. Bolt heads shall comply with AS 1111.

**4. FINISH:**

All components shall hot dip galvanised to the requirements of AS 1214 and AS 1650.

- **Unit of Measure:** Set
- **Rejection:** PNG Power Ltd reserves all rights to reject whole or part of the order not complying with this specification and is not liable for any cost or loss with the return of rejects to the Supplier. Facilitation of Invoice Credit must commence between the supplier and PNG Power Ltd through the process of PNG Power Ltd Discrepancy Report provisions.

**Drawing References:**

**Manufacturer's Product Code:**

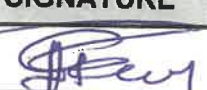


### STANDARDS COMMITTEE APPROVAL

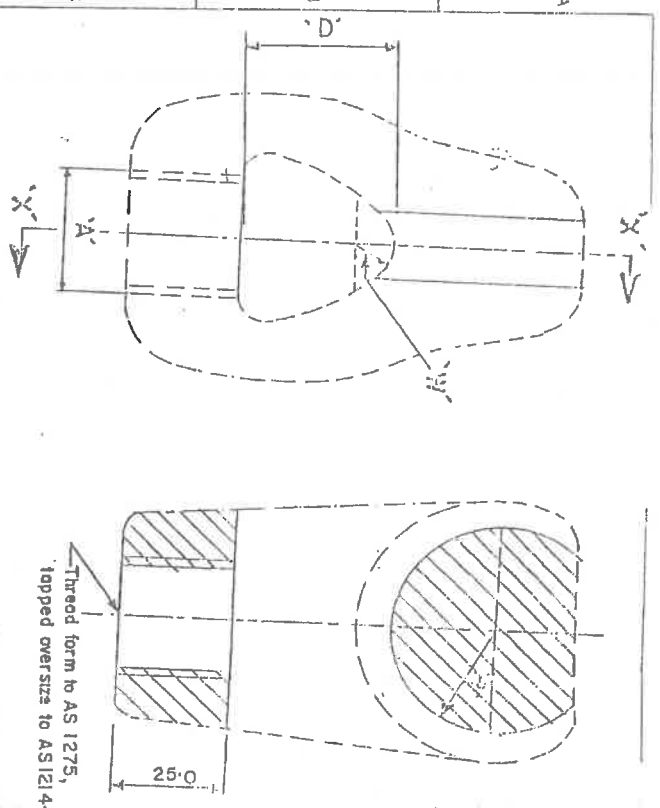
Approval by Alex Oa  
Chairman

Signature: 

Date: 3 / 6 / 2015

### DATA REVIEW ENDORSEMENT

NAME	TITLE	SIGNATURE	DATE
G. Peni	Team Leader Standards and Materials		2/6/15
			22/01/19



A	D Min	W Min	R Min	Min Tailing Load	Working Load	Proof Load
20	32	6	19	84 kN	33 kN	50 kN
24	32	8	22	144 kN	57 kN	86 kN

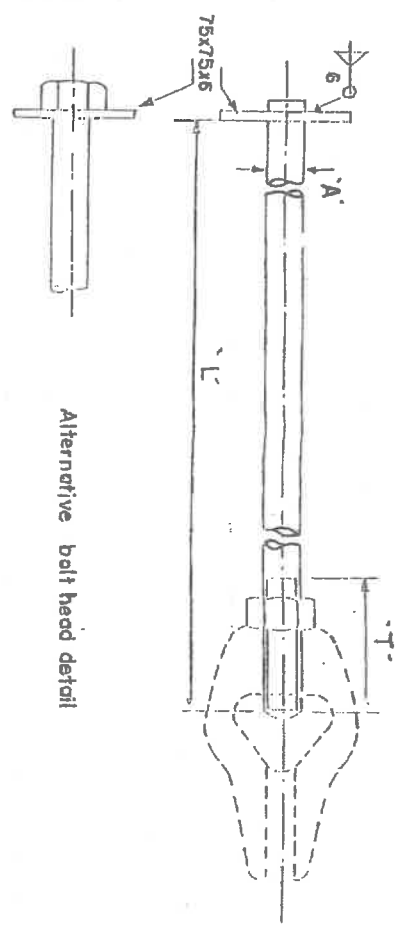
**MATERIAL:** Forged steel (Selected from AS1154, Part 2 Clause 4-2-c)

**FINISH:** Hot dip galvanized to A-S-1650

**NOTE**

1. Broken outlines are not critical and may be varied at the option of the supplier.
2. Thimble groove surface to be free from sharp projections.
3. All dimensions in mm.

**THIMBLE EYENUT**



A	L	T Min	Min Tailing Load	Working Load	Proof Load
20	2745	80	98 kN	35 kN	53 kN
24	3200	80	141 kN	57 kN	86 kN

**MATERIAL:** Grade 4-6 steel to AS 1111.

**THREADS:** ISO metric to AS1275 and AS1214.

**NUT:** galvanized double chamfered class 5 to AS1112.

**FINISH:** Hot dip galvanise to AS1650.

**NOTE**

1. Washer may be welded in position or retained by standard bolt head at option of supplier.
2. All dimensions in mm.

**STAY ROD**

**STAY ROD AND THIMBLE EYENUT**

**REVISION**

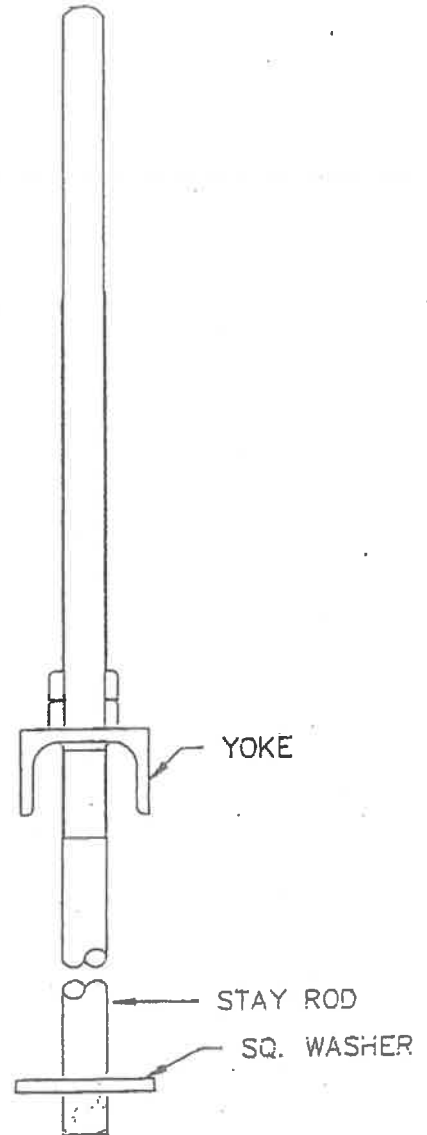
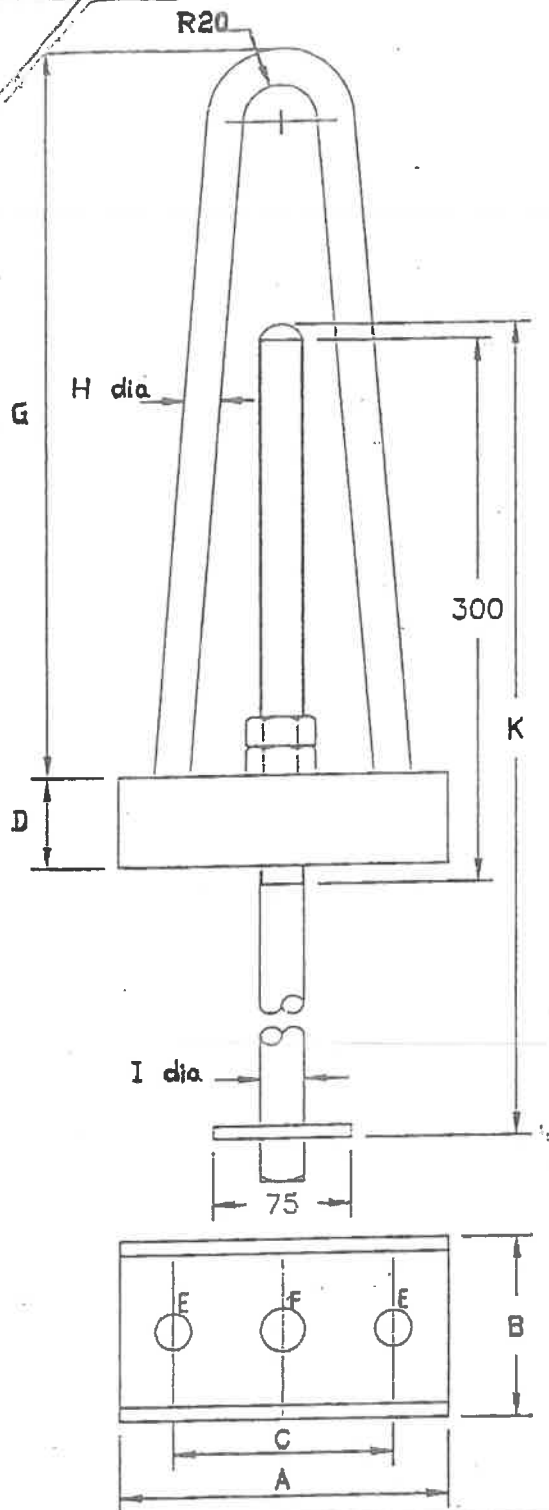
REVISION	Rec. for Iss. Design Eng.	App. for Iss. Princ. Eng.	Date



Drawn	Checked	App. for Iss.	Date
ANDY GEMVAL	KAD WED	gth of AUGUST, 1988	

Revision	Drawing Number
A3	SC - 4/8





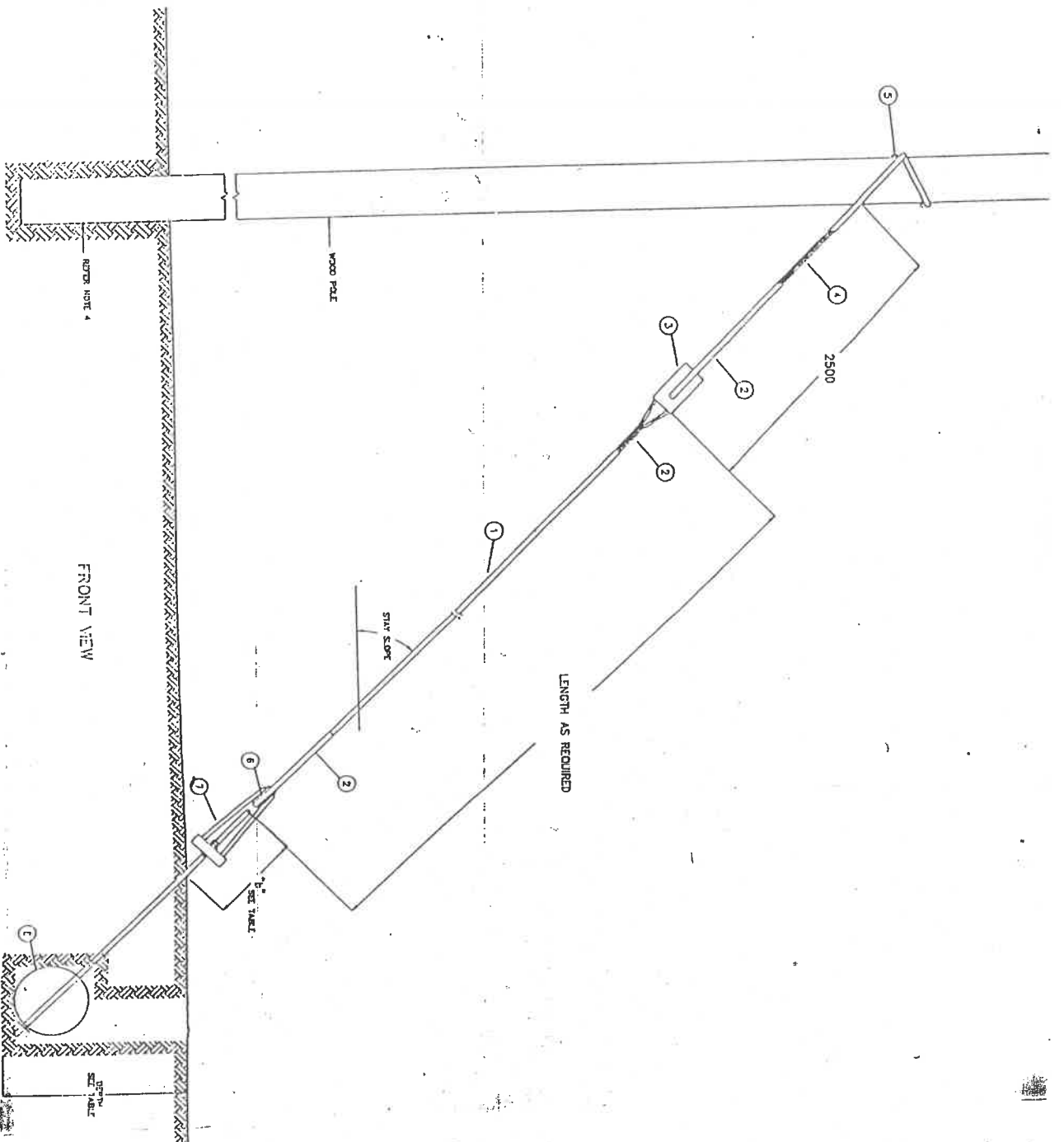
**NOTES**

1. MATERIAL MILD STEEL
2. HOT DIP GALVANISE ACCORDING TO AS 1214 AND 1650
3. SCREW THREAD IN ACCORDANCE WITH AS 1275-1985

VCCAB No	YOKE						BOW		ROD	
	A	B	C	D	E	F	G	H	I	K
132085	130	75	100	40	20	20	335	15	20	2745
132087	180	100	120	50	20	25	380	20	24	3200

ALL DIMENSIONS IN mm

PNG RURAL ELECTRIFICATION NOT TO SCALE	TITLE	JOB No 45-645-01
	STAY ROD AND BOW	DRAWING No 64501626



NOTES:

1. STAY DESIGNATOR: D = DOUBLE STRUTTING
2. SHEET STAYWARE: E.G. D-7/275 H20 IS DOUBLE 7/275 STRUTTING WITH H20 ROD AND BOW
3. REQUIRED STAY TYPE: DETERMINED BY THE FOLLOWING TABLE (SEE DRAWING FOR LOADS)

LOADS	STAY TYPE	STAY TYPE	STAY TYPE
TYPE	45°	45°	45°
LIGHT (H20)	1850	1850	1850
HEAVY (H20)	1850	1850	1850
EXTRA HEAVY (H24)	2000	2000	2000

4. RAKE POLE TOWARDS STAY SO THAT WHEN CONDUCTORS DEFLECT POLE IS VERTICAL
5. STAY MUST BESET THE INSULATOR HEIGHT TO BE USED ON EXTRA-HEAVY STAY
6. FOR DOUBLE GROUND STAY SEE DRAWING 64501023

ITEM	DESCRIPTION	QUANTITY	UNIT	REMARKS
1	STAY WARE	1	EA	AS
2	CLIP RING	1	EA	AS
3	STAY INSULATOR	1	EA	AS
4	ROD AND BOW	1	EA	AS
5	CONDUCTOR	1	EA	AS
6	THIMBLE	1	EA	AS
7	ROD AND BOW	1	EA	AS
8	ROD AND BOW	1	EA	AS

**ENVI** ENGINEERING & ARCHITECTURE

DATE: 11/11/2011

PROJECT: 22 KV DISTRIBUTION LINE SINGLE GROUND STAY

CLIENT: N.I.S.

SCALE: 1:100

PROJECT NO: 64501016

DATE: 11/11/2011

BY: [Signature]

CHECKED BY: [Signature]