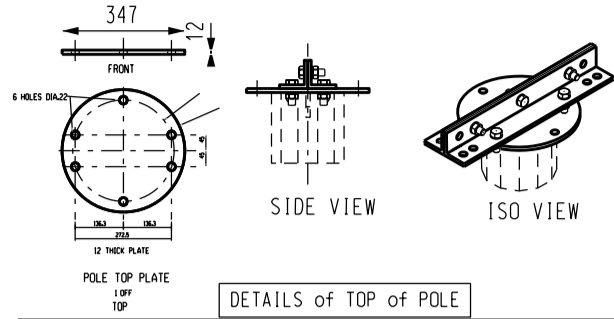THE DESIGN OF THESE STRUCTURES IS GENERALLY IN ACCORDANCE
WITH ASCE STANDARD 48-11, DESIGN OF STEEL TRANSMISSION
POLE STRUCTURES. MANUFACTURE AND INSTALLATION SHOULD ALSO
MEET THE REQUIREMENT OF THE SAME PUBLICATION

347
12
FRONT

6 HOLES DIA:22

12 THICK PLATE

POLE TOP PLATE
1 OFF
TOP

SIDE VIEW

ISO VIEW

DETAILS of TOP of POLE

DESIGN WIND PRESSURE OF 1170pa WITH A 0.6 GUST FACTOR.

Structure Code:	Strsce0218kw.110
Phase Conductor:	Kingbird
Shield Conductor:	wolf
Wind Span: (m)	200
Weight Span: (m)	347
Vertical Φ - Φ Spacing: (m)	2.40
Vertical ε - Φ Spacing: (m)	2.20
Cah: (m)	11
Sides	12
Total Length: (m)	18
Tip diameter: (mm)	220
Base Diameter: (mm)	625
Wall Thickness: (mm)	8
Base Plate O.D : (mm)	800
Base Plate I.D: (mm)	520
Base Plate Thickness: (mm)	40
H.D Bolts: (Qty)	24
H.D Bolts Diameter: (mm)	24
H.D Bolts PCD: (mm)	715
Working Tip Load: (kN)	11
Base g.l Moment: (kNm)	190
Approximate mass: (tons)	1.70

POLES WILL HAVE THE LOWEST NUMBER OF SLIP JOINTS IN
CONFORMANCE WITH THE LIMITATION IMPOSED BY THE LENGTH
OF THE GALVANISING BATH. SLIP JOINT LENGTH IS TO BE
1.5 TIMES THE LARGEST I.D. OF THE SECTION.

FULL PENETRATION WELDS ARE TO BE USED ON:
ALL SECTIONS JOINED BY THE CIRCUMFERENTIAL WELDS.
ALL LONGITUDINAL WELDS WITHIN 75mm OF
CIRCUMFERENTIAL WELDS OR IN THE FEMALE SECTION
OF A SLIP JOINT.

ACCESS LADDER ARE REQUIRED ON ALL STRUCTURES FROM
APPROXIMATELY 6m ABOVE GROUND LEVEL.

FOR INFORMATION ON STRUCTURE SECTION JACKING
PLEASE REFER TO DSP_34-1683
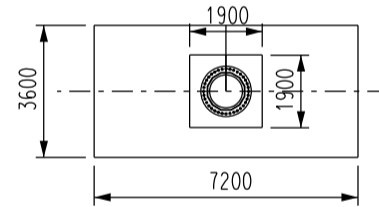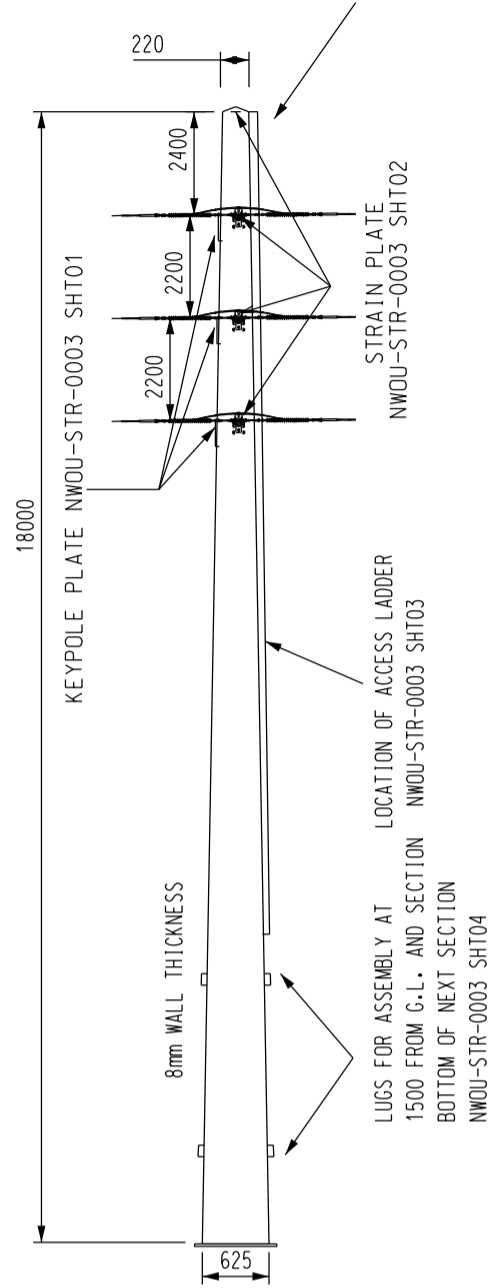
NOTES:
MATERIAL :S355JR STEEL

WELDING TO BE 10mm CONTINUOUS
SEAL TO SANS 10162

HOT DIP GALVANISING TO SANS 121.
STRESS RELIEVING TO BE APPLIED IN
ACCORDANCE WITH SANS 121

TOLERANCE:
ON DIMENSIONS 2mm

INCLINE VIEW

D-DT-7323/7324

220

2400

2200

2200

18000

KEYPOLE PLATE NWOU-STR-0003 SHT01

STRAIN PLATE NWOU-STR-0003 SHT02

LOCATION OF ACCESS LADDER NWOU-STR-0003 SHT03

LUGS FOR ASSEMBLY AT 1500 FROM G.L. AND SECTION BOTTOM OF NEXT SECTION NWOU-STR-0003 SHT04

8mm WALL THICKNESS

625

1900
3600
1900
7200

REV	REVISION DESCRIPTION	BY	CHKD SDO	CHKD PE	AUTH	DATE	PROJECT NO.
Ø	FIRST ISSUE	S.KGW	B.NYN	F.MAS	T.LANDELA	24/04/2020	

132kV SINGLE CIRCUIT

(Ø - 2°) STEEL STRAIN
11m CAH

AUTH: T.LANDELA		
DATE: 24/04/2020		
CHKD PE: F.MASANGO		
DATE: 24/04/2020		
CHKD SDO: B.NYONI	SET	SHEET	REVISION
DATE: 24/04/2020		
DRAWN: S.KGWEDI		
DATE: 17/04/2020		

NWOU-STR-0005s1   SET 3   SHEET 1   REVISION Ø

A4L