



SECTIONAL POLES

Drawing Number
FD-BS-16-06-30-09-30-05-R1.pdf

Mast/Structure Description: 30m HL Mast, 9x470W, Cat2, Hasl:500m

Bending Moment (ULS):	237.3 kNm	Concrete Volume:	4.3 m ³
Shear Force (ULS):	13.1 kN	Concrete Strength:	25 MPa
Structure Mass:	1631.6 kg	Reinforcement Mass:	412.2 kg
Applied vertical force (ULS):	0.0 kN	Reinforcement Strength:	450 MPa
		Excavation Volume:	9.2 m ³
Required Soil Pressure:	134.0 kPa	Backfill Volume:	5.2 m ³

ISSUED FOR CONSTRUCTION

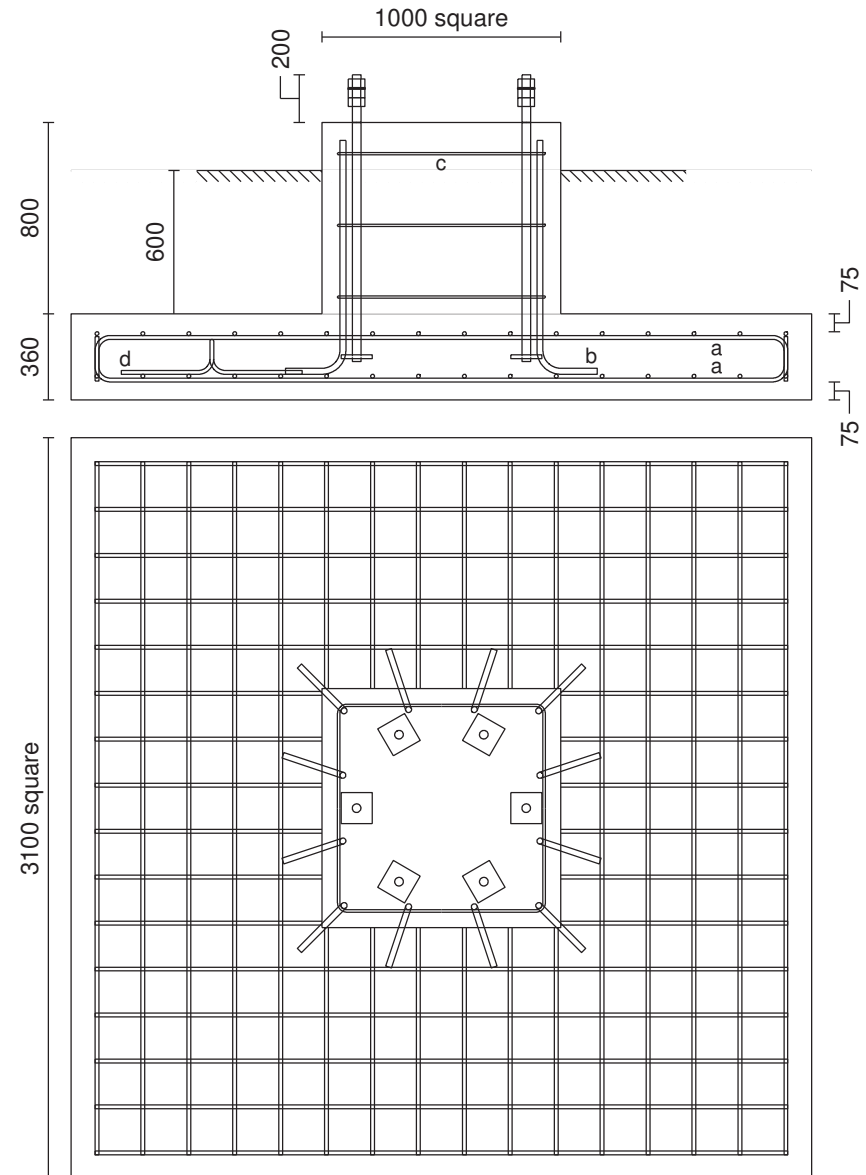
SITE NAME UNIVERSITY OF VENDA, THOHoyANDOU

JOB NO PBSET 42548

DATE 04/02/2020

Shape codes and dimensions of steel reinforcement according to SABS 82:

Ref.	Quantity		Diameter		Full Length		Diagram	Shape Code
	Top	Bottom	Top	Bottom	Top	Bottom		
a	32	32	16	16	3200	3200		38
b	12		25		1168			37
c	3		10		3500			60
d	14		16		1291			83



Notes:

1. Foundation Bolts per Plynth: 6x M36Plate, 710 mm PCD , UTS 550 MPa min, fixing templates to be placed at top and bottom of bolts before casting
2. Positioning of stools (Ref. d) to be determined on site to provide sufficient support between Top and Bottom bars (Ref. a)
3. Bottom and top reinforcement mats each consist of 16 x 16 bars at 192 mm spacing