SECTIONAL POLES
(Pty) Ltd
REG NO 2009/008080/07
VAT NO 4620 263 634

Drawing Number
FD-CW-738836.4694.pdf

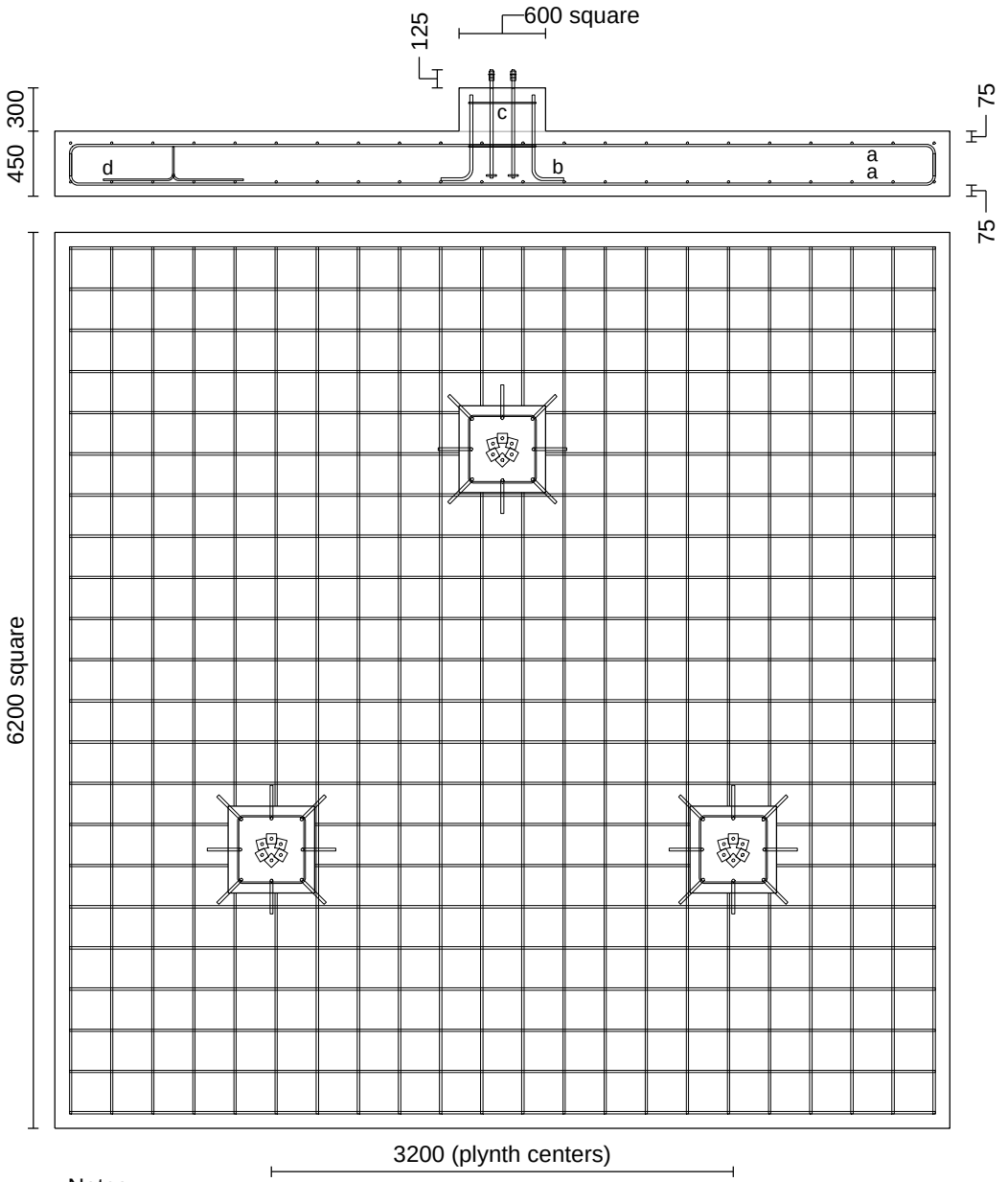
Mast/Structure Description: 30m Lattice 14m² Cat2 0m 2022

Bending Moment (ULS):	1073.3 kNm	Concrete Volume:	17.6 m^3
Shear Force (ULS):	55.7 kN	Concrete Strength:	30 MPa - Note!
Structure Mass:	2514.3 kg	Reinforcement Mass:	982.6 kg
Applied vertical force (ULS):	0.0 kN	Reinforcement Strength:	450 MPa
		Excavation Volume:	0.0 m^3
Required Soil Pressure:	105.7 kPa	Backfill Volume:	0.0 m^3

Vertical Centroid Offset (Tower Template & Foundation): 0.25 m

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

Ref.	Quantity Top	Quantity Bottom	Diameter Top	Diameter Bottom	Full Length Top	Full Length Bottom		Shape Code / Diagram
a	44	44	16	16	6360	6360		38 — A=220, C=220, B=6000
b	24		20		763			37 — A=220, B=593
c	6		10		1905			60 — A, B; A,B=470
d	29		12		1826			83 — A, B, C, D; A,C,D=491, B=236



Notes:
1. Foundation Bolts (EN8), per plynth: 6x M20Plate, 150 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 22 x 22 bars at 285 mm spacing