DESIGN SPECIFICATION:

SABS 0160-01989 AS AMENDED 1990

BASIC WIND SPEED	: 40 m/s
RETURN PERIOD	: 25 YEARS
SITE CATEGORY	: 2
STRUCTURE CLASS	: B
SITE ABOVE SEE LEVEL	: 0m
MAX ANTENNA LOAD	: 300kg
TOP DEFLECTION	: 150mm

NOTES :

STRUCTURAL STEEL WORK :

1) ALL STRUCTURAL STEEL WORK SHALL BE INSPECTED, FABRICATED AND ERECTED IN ACCORDANCE WITH SANS 1200 H.
2) COMPLETE WORKSHOP DRAWING TO BE SUBMITTED TO THE ENGINEER AND APPROVED BEFORE FABRICATION COMMENCE
3) WELDS SHALL CONFORM TO SABS 0167-1984 AND ALL SABS 044 SPECIFICATIONS.
4) ALL SPLICES AND CONNECTIONS INCLUDING WELDING, TO BE FULL STRENGTH AND WELDING TO BE A MINIMUM THICKNESS EQUAL TO PART BEING CONNECTED AT LEAST 4 TIMES THE LENGTH OF AN ANGLE IF ANGLES ARE USED.
5) ALL WELDS TO BE DESIGNED, CHECKED AND TESTED BY STEEL CONTRACTOR.
6) ALL DIMENSIONS SHALL BE CHECKED ON SITE BEFORE FABRICATION COMMENCES. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
7) ALL STRUCTURAL STEEL WORK SHALL BE GRADE 350 W AND/ OR SANS 355 HIGH TENSILE PIPE.
8) STRUCTURAL BOLTS SHALL BE GRADE 4B UNLESS OTHERWISE SHOWN.
9) WHERE TEMPORARY BRACING OR PROPPING ARE NECESSARY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, ERECTION, MAINTENANCE AND REMOVAL OF SUCH SUPPORT.
10) CORROSION PROTECTION SHALL CONSIST OF : HOT DIP GALVANIZING TO SANS 121/ ISO 1461
11) THE MAXIMUM TENSION FORCE IN CABLE DUE TO WIND LOADS WILL BE 6.538kN

NOTES :

GENERAL NOTES :

1.) ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH & SAFETY ACT (Act No. 85 of 1993) AND THE CONSTRUCTION * REGULATIONS IN GOVERNMENT GAZETTE NO. R1010 OF 18 JULY 2003, AS AMENDED.

2.) DIMENSIONS ARE NOT TO BE SCALED OFF THE DRAWINGS. ALL DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER TIME.

3.) ALL CABLES TO BE TENSIONED BY A FORCE OF 0.5 kN HORIZONTALLY AT GROUND SUPPORTS. CABLE CONNECTION TO BOTH FOUNDATION AND TOWER BY MEANS OF GRIPPLE FASTENER OR SIMILAR APPROVED

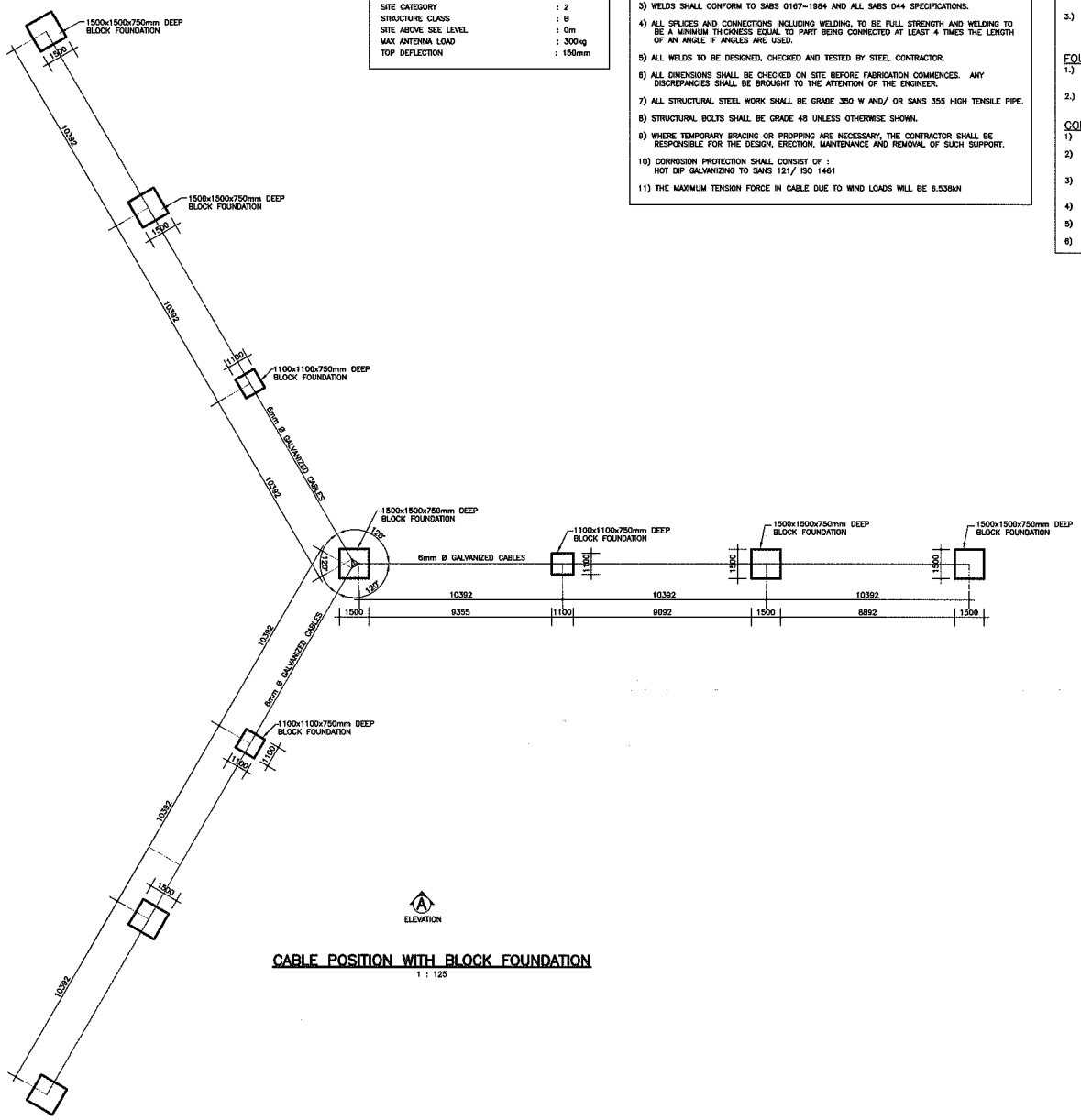
FOUNDATIONS AND EARTHWORKS :

1.) ALL MASS EARTH WORKS SHALL COMPLY WITH THE REQUIREMENTS OF SANS 1200 G.

2.) INSITU SOIL NET ALLOWABLE BEARING PRESSURE TO BE AT LEAST 100kPA

CONCRETE :

1) ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF SANS 1200 G.
2) CONCRETE STRENGTH SHALL BE AT 28 DAYS AS FOLLOW :
   FOUNDATIONS – 25 MPa/19mm
3) CURING OF CONCRETE SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH SANS 1200 G.
4) 50mm X 50mm CHAMFER TO ALL EXPOSED CORNERS.
5) ALL EXPOSED CONCRETE COLUMNS TO BE OFF SHUTTER UNLESS OTHERWISE NOTED.
6) ALL CONCRETE SHALL BE ADEQUATELY VIBRATED MECHANICALLY.



CABLE POSITION WITH BLOCK FOUNDATION

1 : 125

NR. NO.	DATUM DATE	WYSIGINGS AMENDMENTS

OUTEURSREG IS GEVESTIG IN MOSTERT, VAN DEN BERG & DE LEEUW KRAGTENS DIE WET OP OUTEURSREG (WET 98 VAN 1978)

COPYRIGHT IS VESTED IN MOSTERT, VAN DEN BERG & DE LEEUW IN TERMS OF THE COPYRIGHT ACT (ACT 98 OF 1978)

RTS
DV BOTHMA
SENEKAL

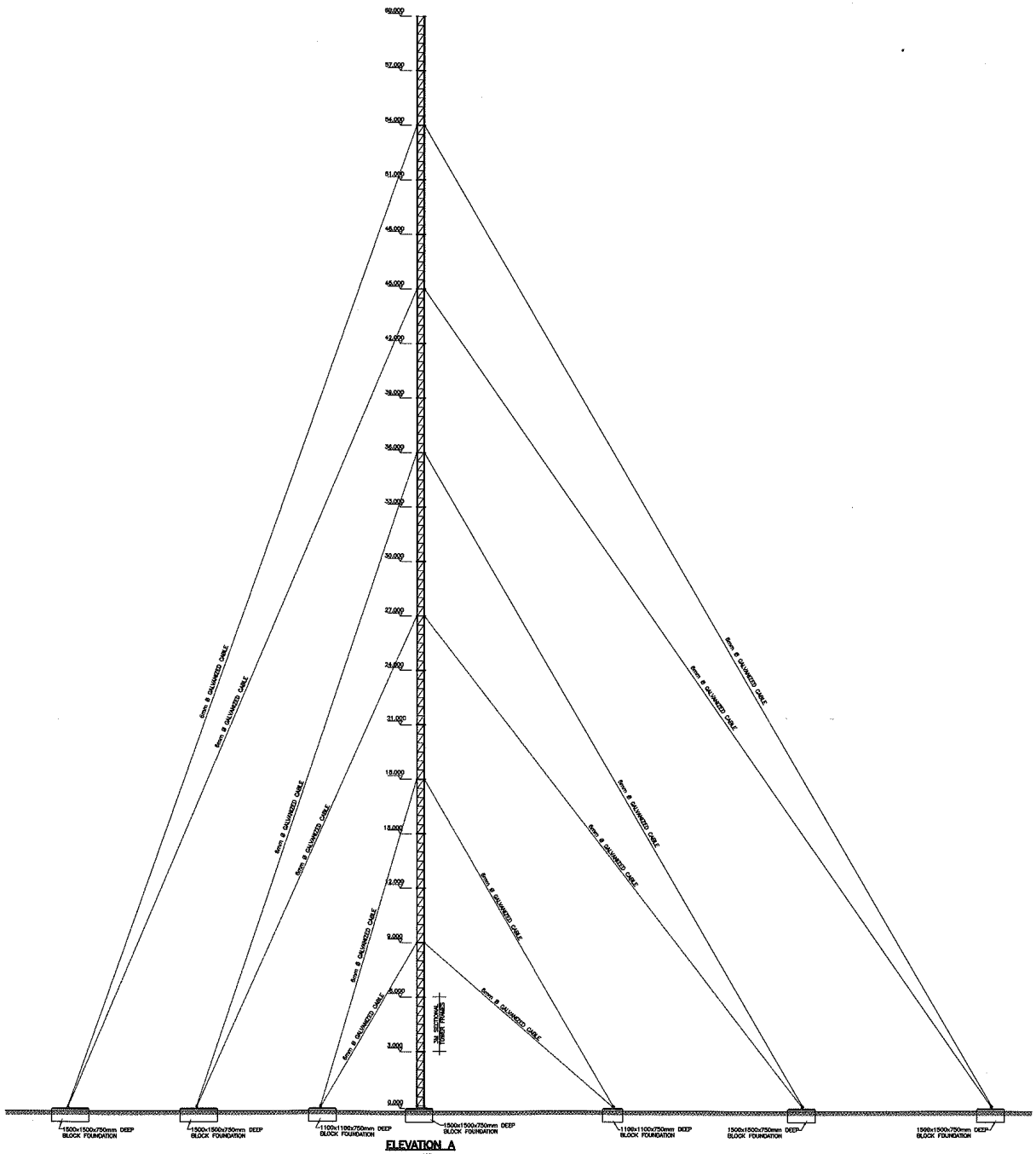
XARIEP
Raadgewende Siviele & Strukturele Ingenieurs
Consulting Civil & Structural Engineers
Murraystraat 36 Murraystreet
Posbus/PO Box 1634, Bethlehem 9700
Tel: (058) 3034581
Fax: (058) 3037444
E-mail: mvdbeth@imaginet.co.za

PROJEK/PROJECT
60m MAST TOWER

TEKENING BESKRYWING/DRAWING DESCRIPTION
CABLE POSITION WITH BLOCK FOUNDATION

TEKENING NR./DRAWING NO.
14/101/758/2/W01

SKAAL SCALE	AS SHOWN	NAGEGAAN CHECKED	
LÊER NR. FILE NO.		KLIËNT CLIENT	
DATUM DATE	DESEMBER' 2014	GETEKEN DRAWN	



ELEVATION A

1 : 125

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

NR. NO.	DATUM DATE	WYSIGINGS AMENDMENTS

OUTEURSREG IS GEVESTIG IN MOSTERT, VAN DEN BERG & DE LEEUW KRAGTENS DIE WET OP OUTEURSREG (WET 98 VAN 1978)

COPYRIGHT IS VESTED IN MOSTERT, VAN DEN BERG & DE LEEUW IN TERMS OF THE COPYRIGHT ACT (ACT 98 OF 1978)

RTS
DV BOTHMA
SENEKAL

XARIEP
Raadgewende Siviele & Strukturele Ingenieurs
Consulting Civil & Structural Engineers
Murraystraat 36 Murraystreet
Posbus/PO Box 1634, Bethlehem 9700
Tel: (058) 3034591
Fax: (058) 3037444
E-mail: mvdbeth@imaginet.co.za

PROJEK/PROJECT
60m MAST TOWER

TEKENING BESKRYWING/DRAWING DESCRIPTION
ELEVATION A

TEKENING NR./DRAWING NO.
14/101/758/2/W02

SKAAL SCALE	AS SHOWN	NAGEGAAN CHECKED	
LÊER NR. FILE NO.		KLIËNT CLIENT	
DATUM DATE	DESEMBER' 2014	GETEKEN DRAWN	BS