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GOVERNMENT NOTICES

DEPARTMENT OF PUBLIC WORKS AND LAND AFFAIRS

No. R. 1577

17 July 1987

LAND SURVEY ACT, 1927

AMENDMENT OF REGULATIONS

The Survey Regulations Board has, in terms of section 6 and 7 of the Inland Survey Act, 1927 (Act 9 of 1927), and with the approval of the Deputy Minister, made the regulations set out in the Schedule hereto.

SCHEDULE

In this Schedule "the Regulations" means the Regulations published under Government Notice R. 1814 of 2 November 1962, and amended by Government Notices R. 1395 of 11 September 1964, R. 533 of 21 April 1967, R. 1033 of 20 June 1969, R. 1126 of 4 July 1969, R. 2008 of 20 November 1970, R. 959 of 9 June 1972, R. 1804 of 13 October 1972, R. 2320 of 13 December 1974, R. 844 of 20 May 1977, R. 1817 of 24 August 1979, R. 1445 of 10 July 1981, R. 2562 of 27 November 1981, R. 178 of 28 January 1983, R. 291 of 24 February 1984, R. 1020 of 10 May 1985 and R. 657 of 11 April 1986.

1. The heading of Chapter II of the Regulations is hereby amended by the substitution for the heading of the chapter of the following heading:

**"TEST OF SURVEYS AND CHARGES AGAINST
LAND SURVEYORS."**

2. Regulation 8 of the Regulations is hereby amended by the insertion after subregulation (7) of the following subregulation:

"(8) when traversing between two fixed points, observations must be taken at both fixed points in order that the traverse may be properly adjusted, unless the orientation is otherwise adequately checked."

GOEWERMENTSKENNISGEWINGS

DEPARTEMENT VAN OPENBARE WERKE EN GRONDSAKE

No. R. 1577

17 Julie 1987

OPMETINGSWET, 1927

WYSIGING VAN REGULASIES

Die Opmetingsregulasieraad het kragtens artikels 6 en 7 van die Opmetingswet, 1927 (Wet 9 van 1927), en met die goedkeuring van die Adjunk-minister, die regulasies in die Bylae hiervan uitgevaardig.

BYLAE

In hierdie Bylae beteken "die Regulasies" die Regulasies uitgevaardig by Goewermentskennisgewing R. 1814 van 2 November 1962 en gewysig deur Goewermentskennisgewings R. 1395 van 11 September 1964, R. 533 van 21 April 1967, R. 1033 van 20 Junie 1969, R. 1126 van 4 Julie 1969, R. 2008 van 20 November 1970, R. 959 van 9 Junie 1972, R. 1804 van 13 Oktober 1972, R. 2320 van 13 Desember 1974, R. 844 van 20 Mei 1977, R. 1817 van 24 Augustus 1979, R. 1445 van 10 Julie 1981, R. 2562 van 27 November 1981, R. 178 van 28 Januarie 1983, R. 291 van 24 Februarie 1984, R. 1020 van 10 Mei 1985 en R. 657 van 11 April 1986.

1. Die opskrif van Hoofstuk II van die Regulasies word hierby gewysig deur die opskrif in die Engelse teks deur die volgende opskrif te vervang:

**"TEST OF SURVEYS AND CHARGES AGAINST
LAND SURVEYORS."**

2. Regulاسie 8 van die Regulاسies word hierby gewysig deur die invoeging van die volgende subregulasie na subregulasie (7):

"(8) Wanneer 'n trekmeting tussen twee vasgestelde punte gemeet word, moet peilings by albei vasgestelde punte gedoen word om die trekmeting behoorlik te kan aansuiwer, tensy die oriëntasie op 'n ander manier voldoende getoets is."

3. Regulation 11 of the Regulations is hereby amended by the insertion after paragraph (c) of subregulation (1) of the following paragraph:

“(d) When the vertical position of a point is determined, the difference between any determination thereof and the finally adopted height shall be of the order of 0,03 metres for Class B and 0,06 metres for Class C and shall not exceed two times this quantity.”

4. Regulation 34 of the Regulations is hereby amended by the substitution for paragraph (a) (iv) of subregulation (1) of the following paragraph:

“at least two favourably situated trigonometrical stations or two reference marks erected in terms of section 26bis (2) of the Act, to which the Survey has been connected: Provided that the Surveyor-General may waive this requirement after consultation with the Chief Director.”

5. Regulation 59 of the Regulations is hereby amended by the insertion after paragraph (j) of subregulation (1) of the following paragraphs:

“(k) in respect of diagrams and general plans which have been submitted to the Surveyor-General for examination and approval, a certificate from the responsible land surveyor stating that—

- (i) the consistency of data has been checked directly from such diagrams and general plans;
- (ii) the co-ordinates of beacons appearing on such diagrams and general plans have been checked against the co-ordinate list and the calculations of the fixes of such beacons; and
- (iii) the beacon descriptions on such diagrams and general plans have been checked against those recorded in the field book and those shown on the working plan.

(l) a copy of the diagrams and general plans referred to in subregulation (k) which demonstrate the results of the checks for consistency of the data.”

6. Regulation 60 of the Regulations is hereby amended by the substitution for paragraph (d) (iii) of subregulation (1) of the following paragraph:

“all beacons, landmarks and permanently marked stations, as found or erected, including particulars of witness marks found or placed; such descriptions to be recorded at the time of finding or erecting the relevant beacons, marks or stations.”

7. The following annexures are hereby substituted for Annexures A and B of the Regulations:

“ANNEXURE A

(Referred to in regulation 67)

DIVISION OF TARIFF

1. Basic area charge.
2. Location and replacement of beacons.
3. Official co-ordinate values.
4. Remaining extent.
5. Definition of a given area.
6. Connections.
7. Curvilinear boundaries.
8. Diagrams, endorsements and prints.
9. General Plans.
10. Servitudes.

3. Regulاسie 11 van die Regulاسies word hierby gewysig deur die invoeging van die volgende paragraaf na paragraaf (c) van subregulasie (1):

“(d) Wanneer 'n punt se hoogteposisie bepaal word moet die verskil tussen enige bepaling daarvan en die aanvaarde finale hoogte ter grootte wees van 0,03 meter vir Klas B en 0,06 meter vir Klas C en mag nie twee keer hierdie hoeveelheid te bowe gaan nie.”

4. Regulاسie 34 van die Regulاسies word hierby gewysig deur paragraaf (a) (iv) van subregulasie (1) deur die volgende paragraaf te vervang:

“Minstens twee gunstig geleë peilbakens of twee versekerings merke wat ingevolge artikel 26bis (2) van die Wet opgerig is, waaraan die opmeting verbind is: Met dien verstande dat die Landmeter-generaal van hierdie vereiste kan afsien na oorlegpleging met die Hoofdirekteur.”

5. Regulاسie 59 van die Regulاسies word hierby gewysig deur die invoeging van die volgende paragrafe na paragraaf (j) van subregulasie (1):

“(k) ten opsigte van kaarte en algemene planne wat vir ondersoek en goedkeuring aan die Landmeter-generaal voorgelê is, 'n sertifikaat van die verantwoordelike landmeter waarin hy verklaar dat—

- (i) die bestaanbaarheid van die gegewens regstreeks vanaf daardie kaarte en algemene planne gekontroleer is;
- (ii) die ko-ordinate van bakens wat op daardie kaarte en algemene planne verskyn, teen die ko-ordinaatlys en berekeninge vir die vasstelling van daardie bakens getoets is; en
- (iii) die bakenbeskrywings op daardie kaarte en algemene planne teen dié wat in die veldboek aangeteken is en dié wat op die werkplan aange-toon is, getoets is.

(l) 'n afskrif van die kaarte en algemene planne waarna in subregulasie (k) verwys is, waarop die uitslag van die toetse vir die bestaanbaarheid van die gegewens aangetoon is.”

6. Regulاسie 60 van die Regulاسies word hierby gewysig deur paragraaf (d) (iii) van subregulasie (1) deur die volgende paragraaf te vervang:

“alle bakens, landmerke en meetpunte wat permanent gemerk is, soos gevind of soos opgerig, asook besonderhede van aanduidingspenne wat gevind of geplaas is; sodanige beskrywings aangeteken te word ten tye van die vind of oprigting van die onderskeie bakens, landmerke of meetpunte.”

7. Aanhangsels A en B van die Regulاسies word hierby deur die volgende Aanhangsels vervang:

“AANHANGSEL A

(In regulاسie 67 vermeld)

INDELING VAN TARIEF

1. Basiese groottevordering.
2. Opsporing en herplasing van bakens.
3. Amptelike koördinaatwaardes.
4. Resterende gedeelte.
5. Bepaling van gegewe grootte.
6. Konneksies.
7. Kromlynige grense.
8. Kaarte, endossemente en afdrukke.
9. Algemene planne.
10. Serwitute.

11. Travelling, transport and subsistence.
12. Line clearing.
13. Abnormal circumstances.
14. Miscellaneous.
15. Survey of urban Black townships and upgrading of general plans for registration of a leasehold for 99 years.

TARIFF OF FEES**1. Basic area charge**

The fees for the survey of one or more pieces of land included in the same survey, surveyed at the same time and having not more than six boundaries, shall be as prescribed below in either Table A or Table B and the charge per piece for any number of pieces not specified in Table A shall be derived proportionally from the tabulated charges:

11. Reis-, vervoer- en verblyfskoste.
12. Oopmaak van lyne.
13. Abnormale omstandighede.
14. Allerlei.
15. Opmeting van stedelike Swart dorpe en opgradering van algemene planne vir registrasie van 'n huurpag vir 99 jaar.

TARIEF VAN GELDE**1. Basiese groottevoordering**

Die gelde vir die opmeet van een of meer stukke grond wat in dieselfde opmeting ingesluit en gelyktydig opgemeet is en nie meer as ses grense het nie, word in Tabel A of Tabel B hieronder voorgeskryf, en die voordering per stuk vir enige getal stukke wat nie in Tabel A aangegee is nie, moet proporsioneel van die getabelleerde voordering afgelei word:

TABLE A

Total number of pieces	Charge for each piece of land: Areas				
	300 m ² and less	301 to 450 m ²	451 to 1 500 m ²	1 501 to 4 000 m ²	4 001 m ² to 2 ha
	R	R	R	R	R
1.....	636	717	798	858	869
2.....	409	460	511	541	581
3.....	322	367	413	444	478
4.....	280	320	361	385	413
5.....	248	290	332	350	374
10.....	217	250	282	306	328
20.....	190	222	254	275	301
50.....	142	186	230	254	275
100.....	126	178	229	248	270
250.....	113	168	224	247	268
500.....	89	154	220	246	262
1 000 and over.....	78	148	217	244	260

TABLE B

Area in hectares	Charge for each piece of land						Charge for every piece over—
	Number of pieces for each of—						
	one	two	three	four	five	six	
	R	R	R	R	R	R	R
Over 2 to 5	880	631	521	456	414	404	6-404
Over 5 to 10	902	654	557	488	451	443	6-443
Over 10 to 25	928	746	654	587	548	538	6-538
Over 25 to 50	1 012	832	716	648	608	590	6-590
Over 50 to 100	1 141	960	841	773	733	714	6-714
Over 100 to 200	1 328	1 109	994	908	—	—	4-908
Over 200 to 300	1 426	1 190	1 052	968	—	—	4-968
Over 300 to 500	1 598	1 296	1 162	1 050	—	—	4-1 050
Over 500 to 750	1 705	1 385	1 229	1 122	—	—	4-1 122
Over 750 to 1 000	1 812	1 494	1 328	1 222	—	—	4-1 222
Over 1 000 to 1 500	1 919	1 598	—	—	—	—	2-1 598
Over 1 500 to 2 000	2 023	1 705	—	—	—	—	2-1 705
Over 2 000 to 3 000	2 132	1 788	—	—	—	—	2-1 788
Over 3 000 to 5 000	2 239	1 854	—	—	—	—	2-1 854
Over 5 000 to 7 500	2 425	2 004	—	—	—	—	2-2 004
Over 7 500 to 10 000	2 612	2 158	—	—	—	—	2-2 158

TABEL A

Totale getal stukke	Vordering vir elke stuk grond: Groottes				
	300 m ² en minder	301 tot 450 m ²	451 tot 1 500 m ²	1 501 tot 4 000 m ²	4 001 m ² tot 2 ha
	R	R	R	R	R
1.....	636	717	798	858	869
2.....	409	460	511	541	581
3.....	322	367	413	444	478

Totale getal stukke	Vordering vir elke stuk grond: Groottes				
	300 m ² en minder	301 tot 450 m ²	451 tot 1 500 m ²	1 501 tot 4 000 m ²	4 001 m ² tot 2 ha
	R	R	R	R	R
4.....	280	320	361	385	413
5.....	248	290	332	350	374
10.....	217	250	282	306	328
20.....	190	222	254	275	301
50.....	142	186	230	254	275
100.....	126	178	229	248	270
250.....	113	168	224	247	268
500.....	89	154	220	246	262
1 000 en meer	78	148	217	244	260

TABEL B

Grootte in hektaar	Vordering vir elke stuk grond						Vordering vir elke stuk meer as—
	Getal stukke vir elk van—						
	een	twee	drie	vier	vyf	ses	
	R	R	R	R	R	R	R
Meer as 2 tot 5	880	631	521	456	414	404	6-404
Meer as 5 tot 10	902	654	557	488	451	443	6-443
Meer as 10 tot 25	928	746	654	587	548	538	6-538
Meer as 25 tot 50	1 012	832	716	648	608	590	6-590
Meer as 50 tot 100	1 141	960	841	773	733	714	6-714
Meer as 100 tot 200	1 328	1 109	994	908	—	—	4-908
Meer as 200 tot 300	1 426	1 190	1 052	968	—	—	4-968
Meer as 300 tot 500	1 598	1 296	1 162	1 050	—	—	4-1 050
Meer as 500 tot 750	1 705	1 385	1 229	1 122	—	—	4-1 122
Meer as 750 tot 1 000	1 812	1 494	1 328	1 222	—	—	4-1 222
Meer as 1 000 tot 1 500	1 919	1 598	—	—	—	—	2-1 598
Meer as 1 500 tot 2 000	2 023	1 705	—	—	—	—	2-1 705
Meer as 2 000 tot 3 000	2 132	1 788	—	—	—	—	2-1 788
Meer as 3 000 tot 5 000	2 239	1 854	—	—	—	—	2-1 854
Meer as 5 000 tot 7 500	2 425	2 004	—	—	—	—	2-2 004
Meer as 7 500 tot 10 000	2 612	2 158	—	—	—	—	2-2 158

Provided that—

- (1) for the survey of any piece of land the area of which exceeds 10 000 hectares, the charge prescribed in Table B shall be increased by R96 for every additional 1 000 hectares or part thereof;
- (2) the basic area charge shall include the cost of—
 - (a) Supplying survey records in terms of these regulations;
 - (b) a reasonable amount of additional computation to verify the positions of the beacons of the land under survey;
 - (c) preparing and supplying all such reports and certificates as may be required or prescribed in terms of the Act and these regulations;
 - (d) preparing, lodging with the Surveyor-General, and supplying diagrams and general plans in the form and number required or prescribed for registration: Provided further, that when a general plan consists of 10 or fewer figures, a charge for such general plan shall be made in terms of paragraph 9 of this Tariff;
 - (e) except as provided elsewhere in this Tariff, supplying and erecting new beacons and permanently marking main survey stations;
 - (f) locating and verifying existing beacons, stations and reference marks where such beacons, stations and reference marks have not been destroyed, obliterated or covered;

Met dien verstande dat—

- (1) vir die opmeet van enige stuk grond waarvan die grootte meer as 10 000 hektaar is, die vordering wat in Tabel B voorgeskryf word met R96 verhoog moet word vir elke bykomende 1 000 hektaar of deel daarvan;
- (2) die basiese grootte vordering die koste van die volgende insluit:
 - (a) Die verskaffing van meetstukke ingevolge die bepalings van hierdie regulasies;
 - (b) 'n redelike hoeveelheid bykomende berekening om die posisies van die bakens van die grond wat opgemeet word, te toets;
 - (c) die opstel en verskaffing van alle verslae en sertifikate wat nodig is of voorgeskryf is ingevolge die Wet en hierdie regulasies;
 - (d) die vervaardiging, indiening by die Landmeter-generaal en verskaffing van kaarte en algemene planne in die vorm en getal wat nodig is of vir registrasie voorgeskryf word: Met dien verstande voorts dat, wanneer 'n algemene plan uit 10 of minder figure bestaan, 'n vordering vir sodanige algemene plan ooreenkomstig paragraaf 9 van hierdie Tarief gehef word;
 - (e) behoudens andersluidende bepalings van hierdie Tarief, die verskaffing en oprigting van nuwe bakens en die permanente merk van hoofmeetpunte;
 - (f) die opspoor en toetsing van bestaande bakens, meetpunte en versekeringsmerke waar sodanige bakens, meetpunte en versekeringsmerke nie vernietig, uitgewis of bedek is nie;

- (g) basing the survey on trigonometrical stations and reference marks;
- (h) testing the alignment of existing beacons when terminals do not have to be fixed, but excluding replacing beacons on line;
- (i) placing new beacons on an existing boundary;
- (j) pointing out beacons and boundaries in the course of the field work;
- (k) transport in the course of the field work;
- (l) supplying normal labour;
- (m) reasonable time devoted to receiving and perusing instructions for the survey;
- (3) for each piece of land of two hectares or less which is a regular figure, the area charge as prescribed in Table A shall be reduced by 10 per cent for those regular figures exceeding 10 in number: Provided further that the 10 regular figures exempted shall be the smallest regular figures;
- (4) when diagrams are not required for registration, no reduction in the basic area charge shall be made for this reason only;
- (5)
 - (a) when it is necessary to embed the centre mark of a beacon in concrete, as prescribed, an additional charge of R30 per beacon shall be made;
 - (b) when a beacon is placed in accordance with regulation 18 (1) (b) or the first paragraph of regulation 18 (1) (c), a charge of R24 for every such beacon shall be made and when the beacon is placed in accordance with the second paragraph of regulation 18 (1) (c), the charge shall be R59;
 - (c) when witness marks are placed in terms of regulation 18 (2A), a charge of R9,00 per witness mark shall be made;
- (6) in the survey of pieces of land of varying areas, the charge for an individual piece shall be derived from its area at a rate which would be applicable if all the pieces were of the same size: Provided further that when two or more pieces of land are being surveyed and one or more of such pieces of land is greater than and one or more is smaller than two hectares, the charge for one of the larger or largest areas shall be made in accordance with the first column of Table B;
- (7)
 - (a) for each straight dividing wall of a dwelling which forms a common boundary a charge of R36 for each abutting erf shall be made;
 - (b) for each staggered dividing wall of a dwelling which forms a common boundary a charge of R72 for each abutting erf shall be made;
- (8) for each servitude endorsement on a set of diagrams or general plans, a charge of R13 shall be made;
- (9) for each component clause of a set of consolidated diagrams prepared by a land surveyor, a charge of R13 shall be made;
- (10) when a number of properties represented on separate diagrams are surveyed for subdivisional or servitude purposes, an additional charge of R59 shall be made for the second and each subsequent property so surveyed;
- (11)
 - (a) for the survey of additional boundaries exceeding six in number, the charge prescribed in Table A or Table B shall be increased by 10 per cent for each of 10 such additional boundaries and thereafter by 5 per cent for any further such boundaries;
 - (b) the line joining an unbeaconed point with an indicator beacon shall not be deemed to be a boundary for the purpose of this Tariff;
- (g) die basering van die opmeting op peilbakens en versekeringsmerke;
- (h) die toets van die inlynstelling van bestaande bakens wanneer die eindpunte nie vasgestel hoef te word nie, maar uitgesonderd die herplasing van bakens op lyn;
- (i) die plasing van nuwe bakens op 'n bestaande grens;
- (j) die uitwys van bakens en grense in die loop van die werk in die veld;
- (k) vervoer tydens werk in die veld;
- (l) die verskaffing van normale arbeid;
- (m) redelike tyd bestee aan die ontvangs en bestudering van opmetingsinstruksies;
- (3) vir elke stuk grond wat 'n reëlmatige figuur is en waarvan die grootte twee hektaar of minder is, die grootteverordering soos in Tabel A voorgeskryf, met 10 persent verlaag moet word vir dié reëlmatige figuur wat meer as 10 in getal is: Met dien verstande voorts dat die 10 vrygestelde reëlmatige figuur die kleinste reëlmatige figuur is;
- (4) wanneer kaarte nie vir registrasie vereis word nie, die basiese grootteverordering nie om hierdie rede alleen verlaag word nie;
- (5)
 - (a) wanneer dit noodsaaklik is dat die bakenpen in beton ingemessel word, soos voorgeskryf, 'n bykomende vordering van R30 per baken gehef word;
 - (b) wanneer 'n baken ooreenkomstig die eerste paragraaf van regulasie 18 (1) (b) of die eerste paragraaf van regulasie 18 (1) (c) geplaas word, 'n vordering van R24 vir elke sodanige baken gehef word en wanneer die baken ooreenkomstig die tweede paragraaf van regulasie 18 (1) (c) geplaas word, die vordering R59 is;
 - (c) wanneer aanduidingspenne ingevolge regulasie 18 (2A) geplaas word, 'n vordering van R9,00 vir elke aanduidingspen gehef word;
- (6) in die geval van 'n opmeting van stukke grond van verskillende groottes, die vordering vir 'n enkele stuk afgelei moet word van sy grootte teen 'n tarief wat van toepassing sou wees indien al die stukke van dieselfde grootte was: Met dien verstande voorts dat wanneer twee of meer stukke grond gemeet word en een of meer van sodanige stukke grond groter en een of meer kleiner as twee hektaar is, die vordering vir een van die groter of grootste gedeeltes ooreenkomstig die eerste kolom in Tabel B moet wees;
- (7)
 - (a) vir elke reguit verdelingsmuur van 'n woning, wat 'n gemeenskaplike grens vorm, R36 vir elk van daardie aangrensende erwe gevorder word;
 - (b) vir elke verspringende verdelingsmuur van 'n woning, wat 'n gemeenskaplike grens vorm, R72 vir elk van daardie aangrensende erwe gevorder word;
- (8) vir elke serwituut-endorsement op 'n stel kaarte of algemene planne, 'n vordering van R13 gehef word;
- (9) vir elke onderdeelklousule van 'n stel gekonsolideerde kaarte deur 'n landmeter vervaardig, 'n vordering van R13 gehef word;
- (10) wanneer 'n aantal eiendomme op verskillende kaarte voorgestel, vir onderverdelings- of serwituutdoeleindes opgemeet word, 'n bykomende vordering van R59 gehef word vir die tweede en elke daaropvolgende eiendom wat aldus opgemeet word;
- (11)
 - (a) vir die opmeet van bykomende grense van meer as ses in getal, die vordering voorgeskryf in Tabel A of Tabel B met 10 persent verhoog word vir elke van 10 sodanige bykomende grense en daarna met 5 persent vir enige verdere sodanige grense;
 - (b) die lyn wat 'n ongebakende punt met 'n aanduidingsbaken verbind, nie as 'n grens beskou word vir die doel van hierdie Tarief nie;

- (12) in the survey of more than one piece of land in a township, the fees prescribed in tables A and B shall be increased by 25 per cent for any piece of land exceeding 4 000 square metres in area which is entirely surrounded by roads and is not subdivided into erven;
- (13) except as provided in paragraphs 4 and 10 of this Tariff, no charge shall be made for the survey of any road area for which registration as a separate property is not required and which is created in the survey of one or more pieces of land;
- (14) no charge shall be made for the survey of the outside figure represented on a general plan, unless a diagram of such figure is required for registration, and that when such diagram is prepared a charge shall be made for the outside figure as a separate survey.

2. Location and replacement of beacons

For the location or replacement of beacons of a property in a township a charge in terms of either paragraph 14 or Table A of paragraph 1, proviso (11) (a) of the said paragraph 1 and paragraph 11 of this Tariff, whichever is less, shall be made: Provided that for the survey of a property where abnormal circumstances beyond the control of the land surveyor are present the charge made in terms of the said Table A may be increased by a maximum of 85 per cent and that no charge in terms of the provisions of paragraph 13 of this Tariff shall be made.

3. Official co-ordinate values

The basic area charge for each piece of land shall be reduced by 5 per cent for each beacon to which an official co-ordinate value has been assigned: Provided that—

- (a) no reduction shall be made when it is necessary to redetermine or to verify the position of such beacon;
- (b) the total amount by which such charge is reduced shall not exceed 50 per cent.

4. Remaining extent

If it is necessary to survey the remaining extent of a piece of land being subdivided in order to ascertain its area, all charges prescribed in paragraphs 1 and 3 of this Tariff shall apply to the area of such remaining extent as if it were one of the subdivisions.

5. Definition of a given area

The charge for computing the position of and placing a beacon to define a given area shall be 10 per cent of the charge prescribed in Table B: Provided that this charge shall not apply to pieces of land referred to in Table A.

6. Connections

For each of—

- (a) the two distances between two suitably situated beacons of the land being subdivided and two beacons of the subdivision referred to in regulation 36 (1); and
- (b) the sides referred to in regulation 36 (2) (a) or the distances referred to in regulation 36 (2) (b);

the charges for connections shall be made in accordance with Table C below: Provided that—

- (i) no length shall be charged for more than once;
- (ii) no charge shall be made if information obtained from a previous survey can be used again;
- (iii) the charge shall be made once only when two or more contiguous subdivisions are surveyed at the same time;

- (12) vir die opmeet van meer as een stuk grond in 'n dorp, die gelde voorgeskryf in Tabela A en B met 25 persent verhoog word vir 'n stuk grond wat groter is as 4 000 vierkante meter en wat geheel en al deur paaie omring is en wat nie in erwe verdeel is nie;
- (13) behoudens die bepalings van paragrawe 4 en 10 van hierdie Tarief, geen vordering gehef word nie vir die opmeet van enige padgebied waarvoor registrasie as 'n aparte eiendom nie vereis word nie en wat tot stand kom by die opmeet van een of meer stukke grond;
- (14) geen vordering vir die opmeet van die buitefiguur wat op 'n algemene plan voorgestel word, gehef word nie, tensy 'n kaart van sodanige figuur vir registrasiedoeleindes nodig is, en dat wanneer sodanige kaart vervaardig word, daar vir die buitefiguur as 'n afsonderlike opmeting gelde gevorderd word.

2. Opsporing en herplasing van bakens

Vir die opsporing en herplasing van bakens van 'n eiendom in 'n dorp word 'n vordering gehef kragtens of paragraaf 14 of Tabel A van paragraaf 1, voorbehoudsbepaling (11) (a) by genoemde paragraaf 1 en paragraaf 11 van hierdie Tarief, watter bedrag ook al die kleinste is: Met dien verstande dat vir die opmeting van 'n eiendom waar abnormale omstandighede buite die beheer van die landmeter aanwesig is, die vordering wat kragtens genoemde Tabel A gehef word, met hoogstens 85 persent verhoog word en dat geen vordering kragtens die bepalings van paragraaf 13 van hierdie Tarief gehef word nie.

3. Amptelike koördinaatwaardes

Die basiese groottevordering vir elke stuk grond word met 5 persent verminder vir elke baken waaraan 'n amptelike koördinaatwaarde toegeken is: Met dien verstande dat—

- (a) geen vermindering gemaak word wanneer dit nodig is dat sodanige bakens hervasgestel of die posisie van sodanige bakens getoets moet word nie;
- (b) die totale bedrag waarmee sodanige vordering verminderd word, nie 50 persent oorskry nie.

4. Resterende gedeelte

Indien dit nodig is om die resterende gedeelte van 'n stuk grond wat onderverdeeld word, op te meet ten einde die grootte daarvan te bepaal, is alle vorderings in paragrawe 1 en 3 van hierdie Tarief voorgeskryf, van toepassing op die grootte van sodanige resterende gedeelte as sou dit een van die onderverdelings wees.

5. Bepaling van gegewe grootte

Vir die berekening van die posisie en die plasing van 'n baken om 'n gegewe grootte te bepaal, is die vordering 10 persent van die tarief voorgeskryf in Tabel B: Met dien verstande dat hierdie vordering nie van toepassing is nie op stukke grond in Tabel A vermeld.

6. Konneksies

Vir elk van—

- (a) die twee afstande tussen twee geskik geleë bakens van die grond wat onderverdeeld word en twee bakens van die onderverdeling in regulasie 36 (1) genoem; en
- (b) die sye in regulasie 36 (2) (a) genoem of die afstande in regulasie 36 (2) (b) genoem;

word konneksievorderings volgens Tabel C hieronder gehef: Met dien verstande dat—

- (i) daar vir geen afstand meer as een keer 'n vordering gehef word nie;
- (ii) geen vordering gehef word as inligting wat uit 'n vorige opmeting verkry is, weer gebruik kan word nie;
- (iii) die vordering slegs een keer gehef word wanneer twee of meer aangrensende onderverdelings terselfdertyd opgemeet word;

- (iv) no charge shall be made for connections to terminal beacons, the positions of which can be adopted from previous surveys, or, when in circumstances as prescribed, it is not essential to record connecting data on a diagram.

TABLE C

Metres	R
50 and shorter.....	72
Over 50 to 500.....	144
Over 500 to 1 000.....	216
Over 1 000: R216 plus R7,00 for every 100 metres or part thereof in excess of 1 000 metres, with a maximum charge of R720.	

7. Irregular curvilinear boundaries

(1) For surveying the high-water mark of the sea, a charge of R26 for every 50 metres or part thereof plus an initial charge of R53 for each subdivision abutting on the high-water mark shall be made.

(2) For surveying all other curvilinear boundaries, a charge of R18 for every 50 metres or part thereof plus an initial charge of R53 for each subdivision of the property being surveyed abutting on the curvilinear boundary shall be made: Provided that, when it is necessary to survey both banks of a river in order to determine the middle, the charge shall be R36 for every 50 metres or part thereof plus an initial charge of R53 for each subdivision abutting on the curvilinear boundary.

(3) *Information obtained from previous surveys.*—A land surveyor shall not charge a second time for the survey of a curvilinear boundary if the information obtained in a previous survey can be used: Provided that any work that may be necessary to enable the land surveyor to use such information shall be charged for in accordance with paragraph 14 of this Tariff.

8. Diagrams, endorsements and prints

(1) The following charge shall be made for the preparation of a diagram when no charge has been prescribed therefor elsewhere in this Tariff:

- Diagrams without co-ordinates.*—For a diagram of six sides or less: R36. For each additional side above six: R1,90.
- Diagrams with co-ordinates.*—For a diagram of six sides or less: R47. For each additional side above six: R2,50.
- Consolidated diagrams.*—For consolidated diagrams the charges prescribed in subparagraphs (a) and (b) of this paragraph shall apply and an additional charge of R13 shall be made for each component clause of the consolidation:

Provided that a charge for the compilation and calculation of data necessary in the case of subparagraphs (a), (b) and (c) of this paragraph shall be made in accordance with paragraph 14 of this Tariff.

(2) *Servitude endorsements.*—For each servitude endorsement on a set of diagrams a charge of R13 shall be made.

(3) *Prints.*—For providing prints of diagrams suitable for registration a charge of R5,00 per 1 000 square centimetres or part thereof shall be made.

9. General plans

(1) The following charges shall be made for the preparation of a general plan when no charge has been prescribed therefor elsewhere in this Tariff:

For any number of figures up to and including 10: R294.

For every additional figure up to and including 50: R9,00.

For every additional figure above 50: R5,40.

(2) For providing additional copies of a general plan suitable for registration purposes a charge equal to that of the printing costs plus 50 per cent shall be made.

- (iv) geen vordering gehef word vir konneksies na eindpunte waarvan die posisies ontleen kan word aan vorige opmetings nie, of wanneer in omstandighede soos voorgeskryf dit nie noodsaaklik is om konneksiegegevens op 'n kaart aan te bring nie.

TABEL C

Meter	R
50 en korter	72
Meer as 50 tot 500	144
Meer as 500 tot 1 000	216
Meer as 1 000: R216 plus R7 vir elke 100 meter, of deel daarvan, waar dit 1 000 meter oorskry, met 'n vordering van hoogstens R720.	

7. Onreëlmatige kromlynige grense

(1) Vir die opmeet van die hoogwatermerk van die see is die vordering R26 vir elke 50 meter, of deel daarvan, plus 'n aanvangsvordering van R53 vir elke onderverdeling wat aan die hoogwatermerk raak.

(2) Vir die opmeet van alle ander kromlynige grense is die vordering R18 vir elke 50 meter, of deel daarvan, plus 'n aanvangsvordering van R53 vir elke onderverdeling van die eiendom wat opgemeet word en wat aan die kromlynige grens raak: Met dien verstande dat wanneer dit nodig is om albei walle van 'n rivier op te meet ten einde die middel vas te stel, die vordering R36 vir elke 50 meter of deel daarvan is, plus 'n aanvangsvordering van R53 vir elke onderverdeling wat aan die kromlynige grens raak.

(3) *Inligting uit vorige opmetings verkry.*—'n Landmeter mag nie 'n tweede keer vir die opmeet van 'n kromlynige grens 'n vordering hef nie indien die inligting uit 'n vorige opmeting verkry, gebruik kan word: Met dien verstande dat daar ooreenkomstig paragraaf 14 van hierdie Tarief 'n vordering gehef word vir alle werk wat nodig mag wees om die landmeter in staat te stel om sodanige inligting te gebruik.

8. Kaarte, endossemente en afdrukke

(1) Die volgende vordering word gehef vir die vervaardiging van 'n kaart wanneer daar nie elders in hierdie Tarief 'n vordering daarvoor voorgeskryf is nie:

- Kaarte sonder koördinate.*—Vir 'n kaart van ses of minder sye: R36. Vir elke bykomende sy meer as ses: R1,90.
- Kaarte met koördinate.*—Vir 'n kaart van ses of minder sye: R47. Vir elke bykomende sy meer as ses: R2,50.
- Gekonsolideerde kaarte.*—Op gekonsolideerde kaarte is die vorderings voorgeskryf in subparagraawe (a) en (b) van hierdie paragraaf van toepassing, en 'n bykomende vordering van R13 word gehef vir elke onderdeelklousule van die konsolidasie:

Met dien verstande dat 'n vordering vir die kompilering en berekening van gegewens wat nodig is in die geval van subparagraawe (a), (b) en (c) van hierdie paragraaf, ooreenkomstig paragraaf 14 van hierdie Tarief gehef word.

(2) *Serwituut-endossemente.*—Vir elke serwituut-endossement op 'n stel kaarte is die vordering R13.

(3) *Afdrukke.*—Vir die verskaffing van afdrukke van kaarte wat vir registrasie geskik is, is die vordering R5,00 per 1 000 vierkante sentimeter of deel daarvan.

9. Algemene planne

(1) Die volgende vorderings word gehef vir die vervaardiging van 'n algemene plan wanneer daar nie elders in hierdie Tarief 'n vordering daarvoor voorgeskryf is nie:

Vir enige getal figure tot en met 10: R294.

Vir enige bykomende figuur tot en met 50: R9,00.

Vir elke bykomende figuur meer as 50: R5,40.

(2) Vir die verskaffing van bykomende afskrifte van 'n algemene plan geskik vir registrasiedoeleindes word 'n vordering gelykstaande met die drukkoste plus 50 persent gehef.

10. *Servitudes*(1) *Existing visible powerline servitudes (separate diagram):*

- (a) The basic charge for the survey of existing visible powerlines erected by the Electricity Supply Commission referred to in section 2 of the Electricity Act, 1958, shall be made in accordance with Table D below: Provided that the provisions contained in provisos (2) and (5) of paragraph 1 and in paragraphs 6, 11, 12 and 14 of this Tariff shall apply *mutatis mutandis* in respect of the basic charge for any such survey.
- (b) In the case of two or more adjacent powerlines represented on the same servitude diagram, the charge for the survey of each additional line after the first line shall be at a rate of R32 per bend if calculated or R67 per bend if calculated and beaconed.
- (c) For each property affected by the servitude for which a separate servitude diagram is required, an additional charge of R74 shall be made.
- (d) In addition to the charges prescribed in paragraph 6 of this Tariff, all other property beacons necessarily determined during the course of the survey shall be charged for as connecting beacons according to Table C for the distance from each such beacon to the nearest powerline bend point included in the survey.

TABLE D

Distance between consecutive bend points of powerline

Metres	R
0 to 20	268
Over 20 to 50	322
Over 50 to 100	352
Over 100 to 150	373
Over 150 to 250	394
Over 250 to 350	424
Over 350 to 500	458
Over 500 to 750	514
Over 750 to 1 000	563
Over 1 000 to 1 500	640
Over 1 500 to 2 000	725
Over 2 000 to 3 000	824
over 3 000 to 4 000	932
Over 4 000 to 5 000	1 027
Over 5 000 to 7 500	1 135
Over 7 500 to 10 000	1 286
Over 10 000 to 12 500	1 456
Over 12 500 to 15 000	1 590
Over 15 000 to 20 000	1 769
Over 20 000 to 30 000	1 980
Over 30 000: R1 980 plus R190 for every 10 000 metres or part thereof in excess of 30 000 metres.	

(2) *Other line servitudes (separate servitude diagram):*

- (a) The basic charge for the survey of a line to be represented on a separate servitude diagram shall be made as prescribed in paragraph 1 of this Tariff for the area of a square, the side of which is equal to one-quarter of the length of such line: Provided that—
 - (i) all other charges and reductions specified in this Tariff shall apply *mutatis mutandis* as if the line represented one or more boundaries of a piece of land; and
 - (ii) such length shall be taken as being the distance along such line between the property boundaries for which connecting data are normally deemed necessary by the Surveyor-General.

10. *Serwitute*(1) *Bestaande sigbare kraglynserwitute (aparte serwituutkaart):*

- (a) Die basiese vordering vir die opmeet van bestaande sigbare kraglyne wat deur die Elektrisiteitsvoorsieningskommissie, vermeld in artikel 2 van die Elektrisiteitswet, 1958, opgerig is, word volgens tabel D hieronder gehef: Met dien verstande dat die bepalinge in voorbehoudsbepalinge (2) en (5) by paragraaf 1 en in paragrawe 6, 11, 12 en 14 van hierdie Tarief *mutatis mutandis* van toepassing is ten opsigte van die basiese vordering vir enige sodanige opmeting.
- (b) In die geval van twee of meer aanliggende kraglyne wat op dieselfde serwituutkaart voorgestel word, is die vordering vir die opmeting van elke bykomende lyn ná die eerste lyn R32 vir elke buigpunt as dit bereken word, of R67 vir elke buigpunt as dit bereken en gebaken word.
- (c) Vir elke eiendom wat deur die serwituut geraak word en waarvoor 'n aparte serwituutkaart nodig is, word 'n bykomende vordering van R74 gehef.
- (d) Bykomend by die vorderings voorgeskryf in paragraaf 6 van hierdie Tarief, word die vordering vir ander bakens wat noodsaaklikerwys in die loop van die opmeting opgemeet moet word, gehef soos vir konneksiebakens volgens Tabel C vir die afstand van elke sodanige baken na die naaste kraglynbuigpunt wat in die opmeting ingesluit is.

TABEL D

Afstand tussen opeenvolgende buigpunte van kraglyn

Meter	R
0 tot 20	268
Meer as 20 tot 50	322
Meer as 50 tot 100	352
Meer as 100 tot 150	373
Meer as 150 tot 250	394
Meer as 250 tot 350	424
Meer as 350 tot 500	458
Meer as 500 tot 750	514
Meer as 750 tot 1 000	563
Meer as 1 000 tot 1 500	640
Meer as 1 500 tot 2 000	725
Meer as 2 000 tot 3 000	824
Meer as 3 000 tot 4 000	932
Meer as 4 000 tot 5 000	1 027
Meer as 5 000 tot 7 500	1 135
Meer as 7 500 tot 10 000	1 286
Meer as 10 000 tot 12 500	1 456
Meer as 12 500 tot 15 000	1 590
Meer as 15 000 tot 20 000	1 769
Meer as 20 000 tot 30 000	1 980
Meer as 30 000: R1 980 plus R190 vir elke 10 000 meter, of deel daarvan, waar dit 30 000 meter oorskry.	

(2) *Ander lynserwitute (aparte serwituutkaart):*

- (a) Die basiese vordering vir die opmeet van 'n lyn wat op 'n aparte serwituutkaart voorgestel moet word, word gehef soos voorgeskryf in paragraaf 1 van hierdie Tarief vir die grootte van 'n vierkant waarvan die sy gelyk is aan een kwart van die lengte van sodanige lyn: Met dien verstande dat—
 - (i) alle ander vorderings en aftrekkings in hierdie Tarief vermeld, *mutatis mutandis* van toepassing is as sou die lyn een of meer grense van 'n stuk grond voorstel; en
 - (ii) sodanige lengte aanvaar word as die afstand langs sodanige lyn tussen die eiendomsgrense waarvoor konneksiegegewens gewoonlik deur die Landmeter-generaal nodig geag word.

- (b) In the case of two or more adjacent lines represented on the same servitude diagram, the charge for the survey of each additional line after the first line shall be 35 per cent of the charge prescribed in subparagraph (a).

(3) *Area servitudes (separate servitude diagram):*

The charges prescribed in this Tariff for the survey of a piece of land shall apply *mutatis mutandis* to the survey involving the beaconing of a servitude area when it is essential to represent such area on a separate servitude diagram: Provided that, when such area affects a number of contiguous properties, each section of such area which is necessarily beaconed shall rank as a separate piece of land for the purposes of the basic area charge.

(4) *Line and area servitudes combined with subdivisions:*

- (a) For a servitude combined with a subdivision and represented on a subdivisional diagram, when such servitude lies outside the boundaries of the subdivision, the charges prescribed in subparagraphs (2) and (3) shall apply.
- (b) A servitude combined with a subdivision and represented on a subdivisional diagram shall be deemed to be an inherent part of such subdivision when such servitude lies within the boundaries of the subdivision and the charges prescribed in this Tariff shall apply *mutatis mutandis* in regard to the survey of such servitude: Provided that all the additional beacons necessarily placed to define the limits of the servitude shall be charged for as additional sides.
- (c) The applicable charge prescribed in paragraph 7 of this Tariff shall be made when the servitude is defined by a curvilinear line.

(5) *Miscellaneous servitudes:*

- (a) For servitude surveys for which the Surveyor-General has allowed the same procedures to be adopted as are specified for existing visible powerline servitudes, the charges in accordance with subparagraph (1) shall apply.
- (b) For work which is connected with servitudes and which is not specified elsewhere in this paragraph, a charge shall be made in accordance with paragraph 14 of this Tariff.

11. Travelling, transport and subsistence

(1) A charge for the forward and the return journey between a land surveyor's headquarters and the site of the survey or from the place where he was last employed to such site and onwards to other work shall be made at the rate of 85c per kilometre: Provided that—

- (i) such charges shall be made for only one completed journey and only one vehicle, unless substantial reasons exist for additional journeys being made or additional vehicles being used;
- (ii) no charge shall be made for travelling and transport during the performance of a survey for which a basic charge is made; and
- (iii) an additional charge shall be made for the time occupied during the forward and return journeys between the land surveyor's headquarters and the site of the survey for one land surveyor, one technical assistant and labourers being necessarily transported for the performance of the survey at the rate of 75 per cent of the hourly charges prescribed in paragraphs 14 (a) and (b) for the land surveyor and at a rate equal to 0,15 per cent of their gross annual remuneration per

- (b) Waar twee of meer aanliggende lyne op dieselfde serwitutkaart voorgestel word, is die vordering vir die opmeet van elke bykomende lyn ná die eerste lyn 35 persent van die vordering in subparagraaf (a) voorgeskryf.

(3) *Gebiedservitude (aparte serwitutkaart):*

Die vorderings in hierdie Tarief voorgeskryf vir die opmeet van 'n stuk grond is *mutatis mutandis* van toepassing op die opmeting verbonde aan die afbakening van 'n serwitutgebied wanneer dit noodsaaklik is om sodanige gebied op 'n aparte serwitutkaart voor te stel: Met dien verstande dat wanneer sodanige gebied 'n aantal aangrensende eiendomme raak, elke gedeelte van sodanige gebied wat noodsaaklikerwys afgebaken word, as 'n aparte stuk grond beskou word vir die toepassing van die basiese groottevoordering.

(4) *Lyn- en gebiedservitude tesame met onderverdeling:*

- (a) Vir 'n serwitut gekombineer met 'n onderverdeling en voorgestel op 'n onderverdelingskaart, waar sodanige serwitut buite die grense van die onderverdeling val, geld die vorderings voorgeskryf in subparagraaf (2) en (3).
- (b) 'n Serwitut gekombineer met 'n onderverdeling en voorgestel op 'n onderverdelingskaart, word as 'n inherente deel van sodanige onderverdeling beskou wanneer sodanige serwitut binne die grense van die onderverdeling geleë is, en die vorderings wat in hierdie Tarief voorgeskryf word, is *mutatis mutandis* van toepassing op die opmeting van sodanige serwitut: Met dien verstande dat gelde vir al die bykomende bakens, wat noodsaaklikerwys geplaas is om die perke van die serwitut te bepaal, gevorder word as bykomende grense.
- (c) Die toepaslike vordering voorgeskryf in paragraaf 7 van hierdie Tarief, word gehef wanneer die serwitut kromlynig bepaal word.

(5) *Allerlei serwitute:*

- (a) Vir serwitutopmetings waarby die Landmeter-generaal toegelaat het dat dieselfde prosedures gevolg word as wat aanvaar is vir bestaande sigbare kraglynserwitute, word die vorderings ooreenkomstig subparagraaf (1) gehef.
- (b) Vir die werk wat in verband staan met serwitute en wat nie elders in hierdie paragraaf gespesifiseer word nie, word 'n vordering ooreenkomstig paragraaf 14 van hierdie Tarief gehef.

11. Reis, vervoer en verblyf

(1) Vir die heen- en terugreis tussen 'n landmeter se hoofkwartier en die terrein van die opmeting of van die plek waar hy laas werksaam was na sodanige terrein en verder na ander werk, word 'n vordering van 85c per kilometer gehef: met dien verstande dat—

- (i) sodanige vorderings gehef word vir slegs een voltooide reis met een voertuig, tensy daar grondige redes bestaan vir die aflê van bykomende reise of vir die gebruik van bykomende voertuie;
- (ii) geen vordering gehef mag word nie vir reis en vervoer tydens die uitvoer van 'n opmeting waarvoor 'n basiese-groottevoordering gehef word; en
- (iii) 'n bykomende vordering gehef word vir die tyd wat deur die heen- en terugreis tussen die landmeter se hoofkwartier en die terrein van die opmeting in beslag geneem word, vir een landmeter, een tegniese assistent en arbeiders wat noodsaaklikerwys vervoer moet word vir die uitvoering van die opmeting teen 75 persent van die uurtariewe wat in paragraaf 14 (a) en (b) vir die landmeter voorgeskryf is en 0,15 persent van die bruto jaarlikse vergoeding per uur vir

hour for labourers and technical assistants, unless a different prior written agreement has been made between the land surveyor and the person responsible for the payment of his fees

(2) When free accommodation is not provided at the site of the survey, the land surveyor shall charge travelling and transport expenses at a rate prescribed in subparagraph (1) of this paragraph in respect of one forward and one return journey per day between the site of the survey and either—

- (a) his headquarters; or
- (b) the nearest suitable accommodation; or
- (c) the free accommodation provided elsewhere by the client:

Provided that—

- (i) the distance per day for which such charge is made shall not exceed 100 kilometres;
- (ii) no charge shall be made in terms of this paragraph for the first day devoted to the survey;
- (iii) for accommodation supplied by the land surveyor away from his headquarters, he may charge for reasonable disbursements necessarily incurred for himself, his assistants and labourers.

12. Line clearing

When it is essential for the performance of a survey that vegetation be cleared, the time necessarily spent by the land surveyor solely on supervising such clearing shall be charged for at a rate of 75 per cent of the hourly charges prescribed in paragraphs 14 (a) and (b): Provided that the land surveyor shall ensure that the clearing is done as economically and expeditiously as possible: Provided further that, whenever practicable, the client shall be afforded the opportunity of having the necessary clearing done and supplying the necessary labour. The cost of labour supplied by the land surveyor for the clearing shall be recoverable from the client.

13. Abnormal circumstances

(1) The charges specified in Tables A and B of paragraph 1, in provisos (1), (3), (11) and (12) paragraph 1, and in paragraphs 4, 5, 6, 7, and 10 [excluding subparagraph 10 (5) (b)] of the Tariff may be increased by not more than 35 per cent if abnormal circumstances beyond the control of the land surveyor adversely affect the performance of field work. The increase shall be assessed in each case on its merits.

(2) In the survey of 50 or more pieces of land in an existing township, the area charge as prescribed in Table A of paragraph 1 of the Tariff shall be increased by 60 per cent for those pieces of land upon which one or more buildings have been erected: Provided that when this charge is made no charge in terms of subparagraph (1) shall be made.

14. Miscellaneous

For professional work not specified elsewhere in this tariff a charge shall be made as follows:

- (a) For a principal, partner or land surveyor having more than five years cadastral experience—15 cents per hour per R100 or part thereof of the total pensionable annual salary attached to a Director's grading in the Civil Service, with a minimum of R75 per hour.
- (b) For a salaried land surveyor with less than five years cadastral experience—12 cents per hour per R100 or part thereof of the total pensionable annual salary attached to a Director's grading in the Civil Service:

Provided that the following costs shall be recoverable:

- (i) 85c per kilometre in respect of motor transport supplied by the land surveyor during the performance of a survey;
- (ii) the amount of disbursements for beacon material;

arbeiders en tegniese assistente, tensy 'n ander skriftelike ooreenkoms vooraf aangegaan is tussen die landmeter en die persoon wat verantwoordelik is vir die betaling van sy gelde.

(2) As gratis akkommodasie nie op die terrein van die opmeting verskaf word nie, vorder die landmeter vervoer- en reiskoste teen die tarief in subparagraaf (1) van hierdie paragraaf voorgeskryf, ten opsigte van een heen- en terugreis per dag tussen die terrein van die opmeting en—

- (a) of sy hoofkwartier;
- (b) of sy naaste geskikte akkommodasie;
- (c) of die vry akkommodasie deur sy kliënt elders verskaf:

Met dien verstande dat—

- (i) die afstand per dag waarvoor sodanige vordering gehef word, nie 100 kilometers mag oorskry nie;
- (ii) geen vordering kragtens hierdie paragraaf gehef mag word nie vir die eerste dag wat aan die opmeting bestee word;
- (iii) vir akkommodasie wat deur die landmeter weg van sy hoofkwartier verskaf word, hy vir redelike uitgawes wat noodsaaklikerwyse ten opsigte van homself, sy assistente en arbeiders aangegaan is kan vorder.

12. Oopmaak van Lyn

Wanneer dit vir die uitvoering van 'n opmeting noodsaaklik is dat die plantegroei verwyder word, moet vir die tyd wat noodwendig deur die landmeter bestee is uitsluitlik aan toesig oor sodanige verwydering, 'n vordering gehef word teen 75 persent van die uurtariewe wat in paragrawe 14 (a) en (b) voorgeskryf is: Met dien verstande dat die landmeter sorg dra dat die verwydering so ekonomies en spoedig moontlik plaasvind: Met dien verstande voorts, dat, wanneer dit uitvoerbaar is, die kliënt die geleentheid gegee word om die nodige verwydering te laat doen en die arbeid te verskaf. Die koste van arbeid wat deur die landmeter vir die verwydering verskaf word, is op die kliënt verhaalbaar.

13. Abnormale omstandighede

(1) Indien abnormale omstandighede buite die beheer van die landmeter die uitvoer van veldwerk nadelig beïnvloed, kan die vorderings in Tabelle A en B van paragraaf 1, in voorbehoudsbepalings (1), (3), (11) en (12) van genoemde paragraaf 1, en in paragrawe 4, 5, 6, 7 en 10 [uitgesonderd subparagraaf 10 (5) (b)] van die Tarief met hoogstens 35 persent verhoog word. Die verhoging moet in elke geval volgens meriete bepaal word.

(2) In die opmeting van 50 of meer stukke grond in 'n bestaande dorp moet die groottevordering soos in Tabel A van paragraaf 1 van die Tarief voorgeskryf, met 60 persent verhoog word vir daardie stukke waarop een of meer geboue opgerig is: Met dien verstande dat wanneer hierdie vordering gemaak word geen vordering kragtens die bepalinge van subparagraaf (1) gemaak sal word nie.

14. Allerlei

Vir professionele werk waarvoor nie elders in hierdie tarief voorsiening gemaak is nie, word 'n vordering soos volg gehef:

- (a) Vir 'n prinsipaal, vennoot of landmeter met meer as vyf jaar kadastrale ondervinding—15 sent per uur R100 of gedeelte daarvan van die totale pensioengewende jaarlikse salaris gekoppel aan die gradering van 'n Direkteur in die Staatsdiens, met 'n minimum van R75 per uur.
- (b) Vir 'n gesalarieerde landmeter met minder as vyf jaar kadastrale ondervinding—12 sent per uur per R100 of gedeelte daarvan van die totale pensioengewende jaarlikse salaris gekoppel aan die gradering van 'n Direkteur in die Staatsdiens:

Met dien verstande dat die volgende koste verhaalbaar is:

- (i) 85c per kilometer ten opsigte van motorvervoer deur die landmeter verskaf tydens die uitvoering van 'n opmeting;
- (ii) die bedrag van uitgawes aan bakenmateriaal;

- (iii) a charge equal to 15 cents per hour per R100 or part thereof of their gross annual remuneration for labourers and technical assistants necessarily employed: Provided further that such a charge shall not exceed the charge stipulated in (a) above: Provided further that, where an institute of land surveyors has a tariff of fees for work not specified elsewhere in this Tariff and which is for service performed in terms of the Act and Regulations, a charge in conformity with such tariff shall be made.

15. Survey for urban Black townships and updating of general plans for registration of a leasehold for 99 years

(1) *Basic area charge.*—The fees for the survey of one or more pieces of land included in the same survey, surveyed at the same time and having not more than six boundaries, shall be as prescribed below in Table E and the charge per piece for any number of pieces not specified in the table shall be derived proportionally from the tabulated charges:

- (iii) 'n vordering bereken teen 15 sent per uur per R100 of gedeelte daarvan van hulle bruto jaarlikse vergoeding vir arbeiders en tegniese assistente wat noodsaaklikerwys in diens geneem is: Met dien verstande voorts dat so 'n vordering nie die vordering wat in (a) hierbo bepaal is sal oorskry nie: Met dien verstande voorts dat waar 'n instituut van landmeters 'n tarief van gelde vasgestel het vir werk wat ingevolge die Wet en hierdie regulasies verrig word en waarvoor nie elders in hierdie Tarief voorsiening gemaak is nie, 'n vordering ingevolge sodanige tarief gehef word.

15. Opmeting van stedelike Swart dorpe en opgradering van algemene planne vir registrasie van huurpag vir 99 jaar

(1) *Basiese groottevordering.*—Die gelde vir die opmeet van een of meer stukke grond wat in dieselfde opmeting ingesluit en gelyktydig opgmeet is en nie meer as ses grense het nie, word in Tabel E hieronder voorgeskryf, en die vordering per stuk vir enige getal stukke wat nie aangegee is nie moet proporsioneel van die getabelleerde vordering afgelei word:

TABLE E

Total number of pieces	Charge for each piece of land: Areas						
	300 m ² and less	301 to 450 m ²	451 to 750 m ²	751 to 1 100 m ²	1 101 to 1 500 m ²	1 501 to 4 000 m ²	4 001 m ² to 2 ha
	R	R	R	R	R	R	R
1.....	481	541	590	638	697	858	869
2.....	346	394	430	468	514	541	581
3.....	245	274	304	337	376	444	478
4.....	218	245	274	301	336	385	413
5.....	202	226	252	280	305	350	374
10.....	146	172	192	210	236	306	328
20.....	137	157	175	196	216	275	301
50.....	125	140	158	175	197	254	275
100.....	119	132	148	162	181	248	270
250.....	101	116	130	146	161	247	268
500.....	85	97	110	121	137	246	262
1 000.....	73	84	97	108	122	244	260
2 000 and over.....	61	70	82	94	109	244	260

TABEL E

Totale getal stukke	Vordering vir elke stuk grond: Groottes						
	300 m ² en minder	301 tot 450 m ²	451 tot 750 m ²	751 tot 1 100 m ²	1 101 tot 1 500 m ²	1 501 tot 4 000 m ²	4 001 m ² tot 2 ha
	R	R	R	R	R	R	R
1.....	481	541	590	638	697	858	869
2.....	346	394	430	468	514	541	581
3.....	245	274	304	337	376	444	478
4.....	218	245	274	301	336	385	413
5.....	202	226	252	280	305	350	374
10.....	146	172	192	210	236	306	328
20.....	137	157	175	196	216	275	301
50.....	125	140	158	175	197	254	275
100.....	119	132	148	162	181	248	270
250.....	101	116	130	146	161	247	268
500.....	85	97	110	121	137	246	262
1 000.....	73	84	97	108	122	244	260
2 000 en meer.....	61	70	82	94	109	244	260

Provided that—

- (a) the basic area charge shall include the cost of—
- supplying the survey records required;
 - preparing, lodging and supplying diagrams and general plans in the form and number as may be required;
 - except as specified elsewhere in this paragraph, supplying and erecting new beacons and permanently marking main survey stations;

Met dien verstande dat—

- (a) die basiese groottevordering die koste van die volgende insluit:
- die verskaffing van meetstukke wat benodig word;
 - die vervaardiging, indiening en verskaffing van kaarte en algemene planne in die vorm en getal wat benodig word;
 - uitgesonderd soos elders in hierdie paragraaf bepaal, die verskaffing en oprigting van nuwe bakens en die permanente merk van hoofmeetpunte;

- (iv) locating and verifying existing beacons, stations and reference marks where such beacons, stations and reference marks have not been destroyed, obliterated or covered;
 - (v) basing the survey on trigonometrical stations and reference marks;
 - (vi) placing new beacons on an existing boundary;
 - (iii) pointing out beacons and boundaries in the course of the field work;
 - (viii) transport in the course of the field work;
 - (ix) supplying normal labour;
 - (x) reasonable time devoted to receiving and perusing instructions for the survey;
- (b) for each piece of land of two hectares or less which is a regular figure, the area charge as prescribed in Table E shall be reduced by 10 per cent for those regular figures exceeding 10 in number: Provided further that the 10 regular figures exempted shall be the smallest regular figures;
- (c) in the survey of one or more pieces of land in a township, the area charge as prescribed in Table E shall be increased by 60 per cent for those pieces of land upon which one or more buildings have been erected;
- (d) when it is required to embed the centre mark of a beacon in concrete, an additional charge of R24 per beacon shall be made;
- (e) when reference marks other than those prescribed in section 26bis of the Act are placed, an additional charge of R24 for each such reference mark shall be made;
- (f) in the survey of pieces of land of varying areas, the charge for an individual piece shall be derived from its area at a rate which would be applicable if all the pieces were of the same size;
- (g) for the survey of additional boundaries above six in number, the charge as prescribed in Table E shall be increased by 10 per cent for each of 10 such additional boundaries and thereafter by five per cent for any further such boundaries;
- (h) the area charge as prescribed in Table E may be increased by not more than 30 per cent if abnormal circumstances beyond the control of the land surveyor adversely affect the performance of field work, the increase to be assessed in each case on its merits;
- (i) for the survey of the outside figure shown on a general plan the charge prescribed in Tables A and B and proviso (14) of paragraph 1 of this Tariff shall apply.
- (j) (i) for each straight dividing wall of a dwelling which forms a common boundary a charge of R36 for each abutting erf shall be made;
- (ii) for each staggered dividing wall of a dwelling which forms a common boundary, a charge of R72 for each abutting erf shall be made.
- (2) *Travelling and transport.*—Paragraph 11 shall apply.
- (3) *Verification certificate.*—For a certificate required in terms of the regulations governing the granting of a right of leasehold in an urban Black residential area, the basic charge shall be 50 per cent of the area charge as prescribed in Table E: Provided that the relevant provisos of subparagraph (1) shall also be applicable.
- (4) *General plans:*
- (a) Where the data on a general plan of an existing township must be checked the charge shall be—
- (i) a basic charge of R65 per sheet;
- (iv) die opspoor en toets van bestaande bakens, meetpunte en versekeringsmerke waar sodanige bakens, meetpunte en versekeringsmerke nie vernietig, uitgewis of bedek is nie;
 - (v) basering van die opmeting op peilbakens en versekeringsmerke;
 - (vi) die plaas van nuwe bakens op 'n bestaande grens;
 - (vii) die uitwys van bakens en grense in die loop van die veldwerk;
 - (viii) vervoer tydens die werk in die veld;
 - (ix) die verskaffing van normale arbeid;
 - (x) redelike tyd bestee aan die ontvangs en bestudering van opmetingsinstruksies;
- (b) vir elke stuk grond wat 'n reëlmatige figuur is en waarvan die grootte twee hektaar of minder is, die groottevordering soos in Tabel E voorgeskryf, met 10 persent verlaag moet word vir dié reëlmatige figuur wat meer as 10 in getal is: Met dien verstande voorts dat die 10 vrygestelde reëlmatige figuur die kleinste reëlmatige figuur is;
- (c) vir die opmeet van een of meer stukke grond in 'n drop, die groottevordering soos in Tabel E voorgeskryf, met 60 persent verhoog word vir daardie stukke waarop een of meer geboue opgerig is;
- (d) wanneer vereis word dat die bakenpen in beton ingemessel word, 'n bykomende vordering van R24 per baken gehef word;
- (e) wanneer versekeringsmerke, uitgesonderd dié voorgeskryf in artikel 26bis van die Wet, geplaas word, 'n bykomende vordering van R24 vir elke sodanige versekeringsmerk gehef word;
- (f) in die geval van 'n opmeting van stukke grond van verskillende groottes, die vordering vir 'n enkele stuk afgelei moet word van sy grootte teen 'n tarief wat van toepassing sou wees indien al die stukke van dieselfde grootte was;
- (g) vir die opmeet van bykomende grense van meer as ses in getal, die vordering soos voorgeskryf in Tabel E met 10 persent verhoog word vir elk van 10 van sodanige bykomende grense en daarna met vyf persent vir enige verdere sodanige grense;
- (h) indien abnormale omstandighede buite die beheer van die landmeter die uitvoer van veldwerk nadelig beïnvloed, die vordering in Tabel E voorgeskryf, verhoog kan word met 'n bedrag wat in elke geval volgens meriete bepaal moet word, maar wat nie 30 persent mag oorskryf nie;
- (i) vir die opmeet van die buitefiguur wat op 'n algemene plan voorgestel word die vordering voorgeskryf in Tabela A en B en voorbehoudsbepaling (14) van paragraaf 1 van hierdie Tarief van toepassing sal wees.
- (j) (i) vir elke reguit verdelingsmuur van 'n woning, wat 'n gemeenskaplike grens vorm, R36 vir elk van daardie aangrensende erwe gevorder word;
- (ii) vir elke verspringende verdelingsmuur van 'n woning, wat 'n gemeenskaplike grens vorm, R72 vir elk van daardie aangrensende erwe gevorder word.
- (2) *Reis en vervoer.*—Paragraaf 11 is van toepassing.
- (3) *Verifikasiesertifikaat.*—Vir die sertifikaat wat vereis word ingevolge die regulasies betreffende die toekenning van 'n reg van huurpag in 'n stedelike Swart woongebied, is die basiese vordering 50 persent van die groottevordering soos in Tabel E voorgeskryf: Met dien verstande dat die toepaslike voorbehoudsbepalings van subparagraaf (1) ook van toepassing sal wees.
- (4) *Algemene planne:*
- (a) Waar die data op 'n algemene plan van 'n bestaande dorp getoets moet word, is die vordering wat gehef word—
- (i) 'n basiese vordering van R65 per vel;

- (ii) R12,70 for each irregular figure;
- (iii) R4,30 for each regular figure;
- (iv) R5,20 per distance and direction or co-ordinate required to be computed;
- (v) R37 for each mistake found and corrected, which shall not include numerical data which are merely omitted or not clearly legible and which can be deduced by addition or subtraction:

Provided that for additional information not covered elsewhere in this paragraph a charge in accordance with paragraph 14 of this Tariff shall be made.

- (b) the checking of a general plan referred to in subparagraph (a) shall include the following:
 - (i) the checking of erf numbers;
 - (ii) the correction of erroneous and illegible data and addition of data that may be required;
 - (iii) supplying the metric area of each erf tabulated consecutively on a separate sheet if necessary;
 - (iv) consistency checks;
 - (v) submitting all calculations and a report of the survey.
- (c) Where a general plan is required to be metricated, redrawn and checked to comply with all the requirements, the charge to be made shall be—
 - (i) a basic charge of R254 for the first sheet and R127 for each subsequent sheet;
 - (ii) R26 for each irregular figure;
 - (iii) R7,20 for each regular figure;
 - (iv) R5,20 for each distance and direction or co-ordinate required to be computed;
 - (v) R37 for each mistake found and corrected, which shall not include numerical data which are merely omitted or not clearly legible and which can be deduced by addition or subtraction:

Provided that—

- (a) where the existing data are already in the metric system an amount of R3,50 for each irregular erf and R1,40 for each regular erf shall be deducted;
- (b) where a general plan does not exist and has to be compiled from a land surveyor's survey records a charge for professional work not specified elsewhere in this paragraph shall be made in accordance with paragraph 14 of this Tariff: Provided further that the survey records used for the compilation of the general plan, all the additional calculations and a report on the work done shall be submitted with the general plan.
- (5) *Line clearing*.—For the clearing of lines a charge shall be made in accordance with paragraph 12 of this Tariff.
- (6) *Miscellaneous*.—For professional work not specified elsewhere in this paragraph a charge shall be made in accordance with paragraph 14 of this Tariff."

8. These regulations shall come into operation on the 31st day after the date of publication thereof in the *Gazette*.

No. R. 1578

17 July 1987

LAND SURVEY ACT, 1927 (ACT 9 OF 1927)

AMENDMENT OF REGULATIONS

The Deputy Minister of Land Affairs has under section 8 of the Land Survey Act, 1927 (Act 9 of 1927), made the regulations set out in the Schedule.

- (ii) R12,70 vir elke onreëlmatige figuur;
- (iii) R4,30 vir elke reëlmatige figuur;
- (iv) R5,20 per afstand en rigting of koördinaat wat bereken moet word;
- (v) R37 vir elke fout wat opgespoor en opgeklare word wat nie getalsgegewens insluit wat bloot weggelaat of nie duidelik leesbaar is en deur optel of aftrek afgelei kan word nie:

Met dien verstande dat daar vir bykomende inligting waarvoor nie elders in hierdie paragraaf voorsiening gemaak is nie, 'n vordering ooreenkomstig paragraaf 14 van hierdie Tarief gehef word.

- (b) Die toets van 'n algemene plan soos in subparagraaf (a) bedoel, sluit die volgende in:
 - (i) Die nagaan van erfnummers;
 - (ii) verbetering van foutiewe en onleesbare data en die aanbring van bykomende data wat benodig mag word;
 - (iii) verskaffing van metrieke groottes van elke erf wat, indien nodig, op 'n aparte vel opeenvolgend getabelleer moet word;
 - (iv) bestaanbaarheidstoetse;
 - (v) indiening van alle berekenings en 'n verslag oor die opmeting.
- (c) Waar 'n algemene plan gemetriseer, heropgestel en getoets moet word ten einde te voldoen aan al die vereistes is die vordering wat gehef word—
 - (i) 'n basiese vordering van R254 vir die eerste vel en R127 vir elke daaropvolgende vel;
 - (ii) R26 vir elke onreëlmatige figuur;
 - (iii) R7,20 vir elke reëlmatige figuur;
 - (iv) R5,20 per afstand en rigting of koördinaat wat bereken moet word;
 - (v) R37 vir elke fout wat opgespoor en opgeklare word wat nie getalsgegewens insluit wat bloot weggelaat of nie duidelik leesbaar is en deur optel of aftrek afgelei kan word nie:

Met dien verstande dat—

- (a) waar bestaande data alreeds in die metrieke stelsel is, 'n bedrag van R3,50 vir elke onreëlmatige erf en R1,40 vir elke reëlmatige erf afgetrek word;
- (b) waar geen algemene plan bestaan nie en dit aan die hand van 'n landmeter se meetstukke opgestel moet word, vir professionele werk waarvoor nie elders in hierdie paragraaf voorsiening gemaak is nie, 'n vordering ooreenkomstig paragraaf 14 van hierdie Tarief gehef word: Met dien verstande voorts dat die meetstukke wat gebruik word vir die opstel van die algemene plan, alle bykomende berekeninge en 'n verslag oor die werk wat gedoen is, saam met die algemene plan ingedien word.
- (5) *Oopmaak van lyne*.—Vir die oopmaak van lyne word 'n vordering ooreenkomstig paragraaf 12 van hierdie Tarief gehef.
- (6) *Allerlei*.—Vir professionele werk waarvoor nie elders in hierdie paragraaf voorsiening gemaak is nie, word 'n vordering ooreenkomstig paragraaf 14 van hierdie Tarief gehef."

8. Hierdie regulasies tree in werking op die 31ste dag na die datum van publikasie daarvan in die *Staatskoerant*.

No. R. 1578

17 Julie 1987

OPMETINGSWET, 1927 (WET 9 VAN 1927)

WYSIGING VAN REGULASIES

Die Adjunk-minister van Grondsake het kragtens artikel 8 van die Opmetingswet, 1927 (Wet 9 van 1927), die regulasies vervat in die Bylae uitgevaardig.

SCHEDULE

1. In this Schedule "the Regulations" means the Regulations published under Government notice R. 1814 of 2 November 1962 and amended by Government Notices R. 1395 of 11 September 1964, R. 533 of 21 April 1967, R. 1033 of 20 June 1969, R. 1126 of 4 July 1969, R. 2008 of 20 November 1970, R. 959 of 9 June 1972, R. 1804 of 13 October 1972, R. 2320 of 13 December 1974, R. 844 of 20 May 1977, R. 1817 of 24 August 1979, R. 1445 of 10 July 1981, R. 2562 of 27 November 1981, R. 178 of 28 January 1983, R. 291 of 24 February 1984, R. 1020 of 10 May 1985 and R. 657 of 11 April 1986.

2. Annexure A of the Regulations is hereby amended by the addition of the following paragraph:

"16. IDENTIFICATION AND BEACONING OF LEASHOLD SITES

For the identification of a site by way of a certificate by a land surveyor in terms of regulation 6 (1) of the Regulations made under section 66 (1) of the Black Communities Development Act, 1984 (Act 4 of 1984), and as promulgated by Government Notice R. 1898 of 12 September 1986, after instructions for the survey of such site as a single site or as an erf in a township referred to in the said Act have been issued but where the general plan or diagram has not yet been approved, the following charges shall be made:

- (a) If the land surveyor has already visited the site, and beaconed and surveyed it as prescribed in terms of the Act, the tariff for one hour's work as prescribed in paragraph 14 shall be applied;
- (b) if the land surveyor must still visit the site to undertake the beaconing and survey, the tariff for one and a half hour's work as prescribed in paragraph 14 shall be applied."

3. These regulations shall come into operation on the 31st day after the date of publication thereof in the *Gazette*.

BYLAE

1. In hierdie Bylae beteken "die Regulasies" die Regulasies uitgevaardig by Goewermentskennisgewing R. 1814 van 2 November 1962 en gewysig deur Goewermentskennisgewings R. 1395 van 11 September 1964, R. 533 van 21 April 1967, R. 1033 van 20 Junie 1969, R. 1126 van 4 Julie 1969, R. 2008 van 20 November 1970, R. 959 van 9 Junie 1972, R. 1804 van 13 Oktober 1972, R. 2320 van 13 Desember 1974, R. 844 van 20 Mei 1977, R. 1817 van 24 Augustus 1979, R. 1445 van 10 Julie 1981, R. 2562 van 27 November 1981, R. 178 van 28 Januarie 1983, R. 291 van 24 Februarie 1984, R. 1020 van 10 Mei 1985 en R. 657 van 11 April 1986.

2. Aanhangsel A van die Regulasies word hierby gewysig deur die volgende paragraaf by te voeg:

"16. IDENTIFIKASIE EN AFBAKENING VAN HUURPAGPERSELE

Vir die identifisering van 'n perseel by wyse van 'n sertifikaat wat deur 'n landmeter uitgereik word ingevolge regulasie 6 (1) van die Regulasies uitgevaardig kragtens artikel 66 (1) van die Wet op die Ontwikkeling van Swart Gemeenskappe, 1984 (Wet 4 van 1984), en soos afgekondig by Goewermentskennisgewing R. 1898 van 12 September 1986, nadat opdrag vir die opmeting daarvan as 'n losstaande perseel of as 'n erf in 'n dorp soos bedoel in genoemde Wet, aan hom uitgereik is maar die algemene plan of kaart nog nie goedgekeur is nie, word die volgende gelde gevorder:

- (a) Indien die landmeter reeds die perseel besoek het en dit afgebaken en opgemeet het, soos deur die Wet voorgeskryf, word die tarief soos in paragraaf 14 voorgeskryf vir een uur se werk toegepas;
- (b) indien die landmeter die perseel nog moet besoek om die afbakening en die opmeting te onderneem, word die tarief soos in paragraaf 14 voorgeskryf vir een-en-'n-half uur se werk toegepas."

3. Hierdie regulasies tree in werking op die 31ste dag na die datum van publikasie daarvan in die *Staatskoerant*.

AANHANGSEL B

ANNEXURE B

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VERSLAG OOR OPMETING

Die volgende punte word gegee om te dien as basis vir die opstelling van die verslag wat gedateer en onderteken moet wees :-

1. ASSISTENTE

Dui aan in hoeverre van hul dienste gebruik gemaak is

2. DOEL VAN OPMETING

Onderverdeling, verdeling, vervangingskaart, ens

3. SPESIALE VEREISTES

- (a) Bepaalde Grootte
- (b) Servitude
- (c) Volgorde van registrasie
- (d) Ander vereistes
- (e) Meld uitdruklik of Wet 21/1940 of/en Wet 54/1971 van toepassing is
- (f) Hoe minerale regte gehou word

4. VERWYSING NA STATUTERE TOESTEMMINGS

5. BAKENS

- (a) Deur wie aangewys
- (b) Twyfelagtige bakens - noodsaaklikheid vir bakenooreenkomste - verandering van beskrywing
- (c) Inlynstelling van bestaande bakens
- (d) Eindbakens aangeneem van vorige opmetings
- (e) Rekonstruksie
- (f) Verlore bakens - metode van opsporing, ens.
- (g) Ligging ten opsigte van heinings, mure, ens.
- (h) Nuwe bakens - aan wie getoon
- (i) Redes vir bakenverwerping
- (j) Algemeen

6. VERGELYKING VAN GEGEWENS

- (a) Of verskille buite voorgeskrewe perke is
- (b) Moontlike redes vir verskille
- (c) Foutiewe gegewens

7. ALGEMEEN

- (a) Buitengewone weertoestande
- (b) Moeilike terrein en abnormale omstandighede wat die veldwerk moontlik kan beïnvloed
- (c) Besonderhede aangaande rekenaar programme
- (d) Allerlei

8. SERTIFIKATE

REPORT ON SURVEY

The following headings may prove useful as a basis for the report, which should be signed and dated :-

1. ASSISTANTS

Indicate to what extent employed

2. PURPOSE OF SURVEY

Subdivision, partition, diagram of substitution, etc.

3. SPECIAL REQUIREMENTS

- (a) Defined area
- (b) Servitudes
- (c) Sequence of registration
- (d) Other requirements
- (e) State categorically whether Act 21/1940 and/or Act 54/1971 are applicable.
- (f) How mineral rights are held

4. REFERENCE TO STATUTORY CONSENTS

5. BEACONS

- (a) By whom pointed out
- (b) Doubtful beacons - necessity for beacon agreement. - alteration in description.
- (c) Alignment of existing beacons
- (d) Terminals accepted from previous surveys
- (e) Reconstruction
- (f) Lost beacons - manner of search, etc.
- (g) Positions relative to fences, walls, etc.
- (h) New Beacons - to whom pointed out
- (i) Reasons for rejecting beacons
- (j) General

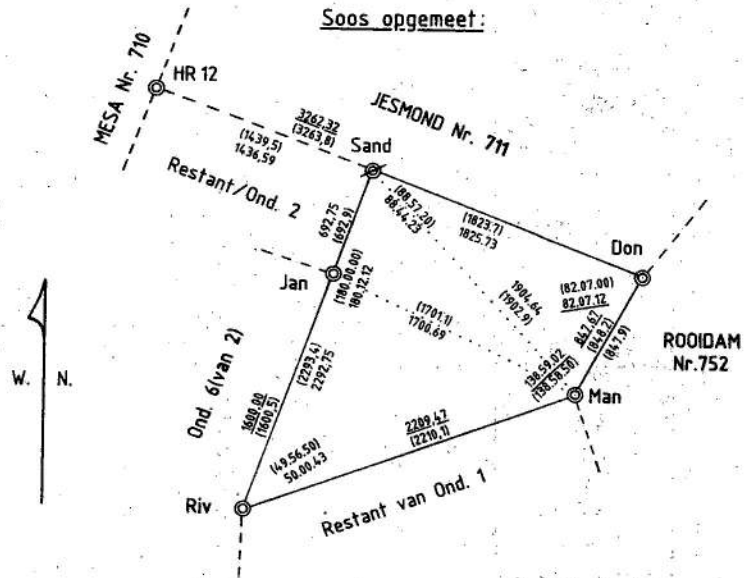
6. COMPARISON OF DATA

- (a) Whether differences are outside prescribed limits
- (b) Possible causes of discrepancies
- (c) Erroneous data

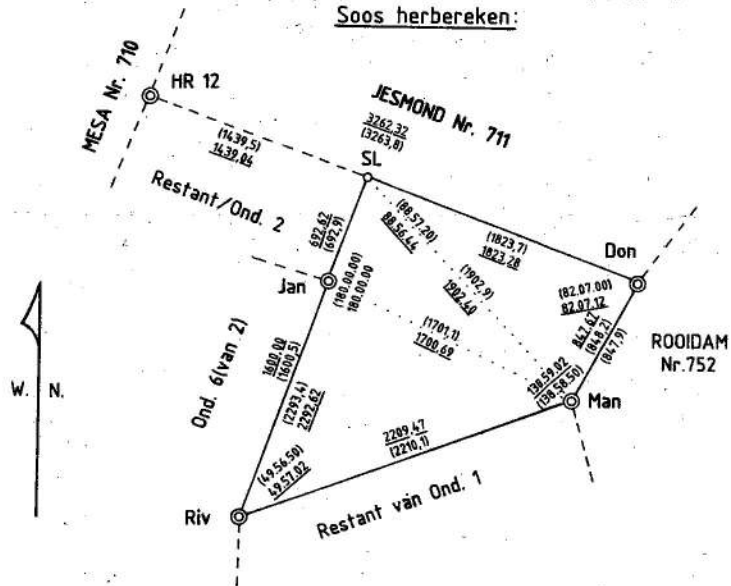
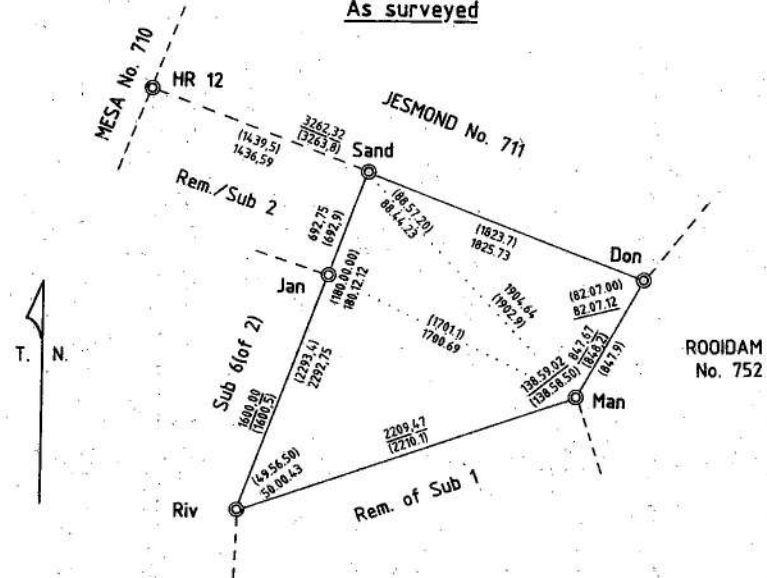
7. GENERAL

- (a) Unusual weather conditions
- (b) Unfavourable terrain and abnormal circumstances that could affect the field work
- (c) Computer programme details
- (d) Miscellaneous

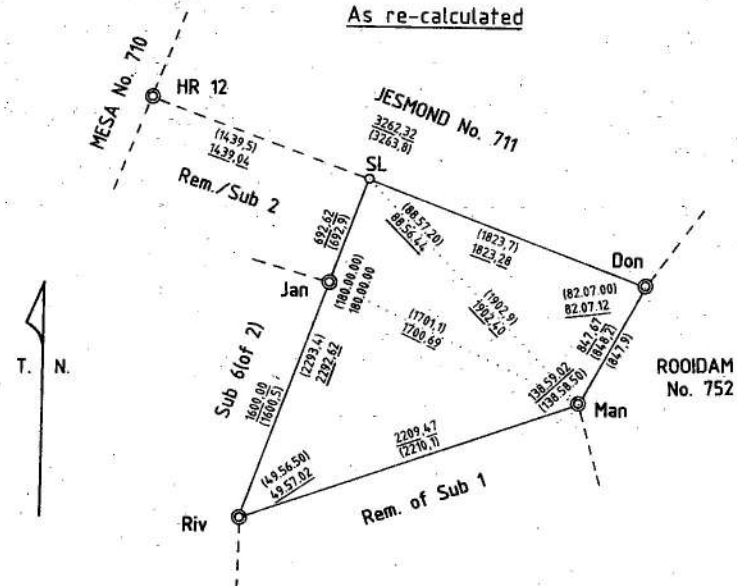
8. CERTIFICATES

VERGELYKINGSPLANSoos opgemeet:

NB. (1) Aanvaarde data is onderstreep
 (2) Kleure mag gebruik word om verskillende meetstukverwysings aan te toon.

Soos herbereken:COMPARISON SKETCHAs surveyed

NB. (1) Survey data adopted is underlined
 (2) Survey Record references for data and beacon descriptions may be colourcoded

As re-calculated

COMPARISON OF BEACON DESCRIPTIONS

BEACONS	AS PREVIOUSLY DESCRIBED	S.R. NO.	AS FOUND
HR 12	Iron rail corner post with stones	23/1971	Unchanged
SAND	Monolith	25/1941	Iron fencing standard
DON DON	25mm Iron Pipe 25mm Iron Pipe in concrete and cairn	25/1941 121/1960	25mm Iron Pipe in concrete and cairn
MAN	Iron rail corner post and cairn with 2 witness marks at 5m.	25/1941 121/1960	Unchanged
RIV	25mm Iron pipe in concrete and cairn	25/1941 321/1953	25mm Iron Pipe in concrete
JAN	20mm x 900mm Iron peg and cairn.	321/1953	20mm Iron peg and cairn.

VERGELYKING VAN BAKENBESKRYWINGS.

BAKENS	SOOS VOORHEEN BESKRYF	M.S. NR.	SOOS GEVIND
HR 12	Ysterspoorstaafhoekpaal met klipstapel.	23/1971	Onveranderd
SAND	Geplante Klip	25/1941	Ysterdraadpaal
DON DON	25mm ysterpyp 25mm ysterpyp in beton onder klipstapel.	25/1941 121/1960	25mm ysterpyp in beton onder klipstapel
MAN	Ysterspoorstaafhoekpaal met klipstapel en 2 aanduidingspenne op 5m.	25/1941 121/1960	Onveranderd
RIV	25mm ysterpyp in beton onder klipstapel	25/1941 321/1953	25mm ysterpyp in beton.
JAN	20mm x 900mm ysterpen onder klipstapel	321/1953	20mm ysterpen onder klipstapel.

FIELD BOOK

Cover/Fly leaf

VELDBOEK

Survey of _____

Instrument _____ Official N° _____

Measuring band _____ Official N° _____

E. D. M. Equipment _____ Official N° _____

Land Surveyor _____

Observer _____

Date of Survey _____

Omslag / Skutblad

Opmeting van _____

Instrument _____ Amptelike N° _____

Meetband _____ Amptelike N° _____

Elektroniese Afstandmeter _____ Amptelike N° _____

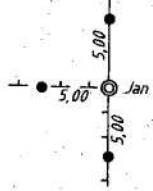
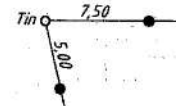
Landmeter _____

Waarnemer _____

Datum van opmeting _____

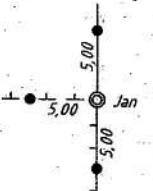
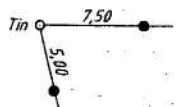
VELDBOEK

Bakenbeskrywings

Baken	Soos gevind	Soos gelaat
Jan	20mm ysterpen en klipstapel	ditto met 3 aanduidingspenne 12mm x 450mm
		
Tin	_____	20mm x 900mm ysterpen en klipstapel met 2 aanduidingspenne 12mm x 450mm
		

FIELD BOOK

Beacon Descriptions

Beacon	As found	As left
Jan	20mm iron peg and cairn	ditto with 3 witness marks 12mm x 450mm
		
Tin	_____	20mm x 900mm iron peg and cairn with 2 witness marks 12mm x 450mm
		

FIELD BOOK / VELDBOEK

At	Font	Observer	I.A.
By		Waarnemer	
Time	8 a.m./v.m.	Date	14-09-1981
Tyd		Datum	
Remarks	to place SL / om SL te plaas		
Opmerkings			
Geluk	261 51 36	261 51 40	P./Bls 108
Zwartkop	334 47 07	334 47 09	108
Aux	81 51 36	81 51 40	120
Fort-Aux	30,48	Level/gelyk 30,48	
SL	-23 49 00	23 49 00	120
Fort-SL	108,98	@ 2° 40' = 108,86	
R.O./V.V.		261 51 41	
At/By Aux	to check SL / om SL te toets		
Geluk, Fort	261 51 36	261 51 39	120
Pad	357 27 42	357 27 43	120
SL	7 39 20	7 40 00	120
Aux-SL	95,97	96,13 @ 3° = 96,00	
Alternate check / Alternatiewe toets :-			
At/By SL	to check SL / om SL te toets		
Kop	268 45 01	268 45 08	88 45 02
Post	306 48 59	306 49 04	126 49 00
Tin	342 05 52	342 05 53	126 05 50
Mooiplaats	61 52 07	61 52 13	241 52 09
Fort	203 48 50	203 48 00	120
R.O./V.V.		268 45 06	88 45 04
Page/Bladsy 15			

CO-ORDINATE LIST / KOORDINAATLYS

De Hoop No. 751

District / Distrik : Heilbron

Reference/Verwysing			System/Stelsel : Lo 29°	
Field Book/ Veldboek	Calculations/ Berekenings		Metres/Meters	
			Y	X
		Constants/Konstantes	+ 0,00	+ 3 000 000,00
3		Geluk (148)	+ 84 039,30	+ 8 904,52
-	Degree-Sheet /Graadvel 2728	Mooiplaats (45)	+ 93 026,57	+ 11 563,13
-		Uitzicht (178)	+ 91 867,11	+ 4 645,41
2		Zwartkop (85)	+ 87 235,49	+ 14 981,20
-	D.c.v./A.k.w.	H.R. 12	+ 91 105,82	+ 9 310,18
-	S.R./M.S. No. 121/60	ST 1	+ 86 206,35	+ 10 582,35
4,15	109	Fort	+ 89 714,64	+ 9 716,29
5	109	Kop	+ 87 606,83	+ 9 768,93
6	110	Pad	+ 89 625,69	+ 12 430,36
-	110	Post	+ 87 731,39	+ 11 333,29
7,13	118	Riv	+ 90 524,79	+ 11 976,79
15	119	Sand	+ 89 760,87	+ 9 815,05
8	118	Tin	+ 89 400,00	+ 10 925,83
10	120	Don	+ 88 051,66	+ 10 456,85
12	120	Man	+ 88 455,59	+ 11 202,09
11	121	Jan	+ 89 990,07	+ 10 468,79
16	122	SL	+ 89 758,60	+ 9 815,99

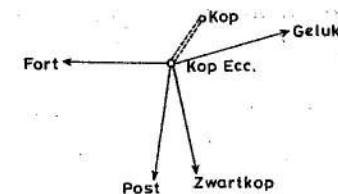
EKSENTRIESE VERBETERING. — ECCENTRIC REDUCTION.

KOP ECC.

$$T - T_e = e \times \frac{206265 \sin (T_e - E)}{S}$$

$$e = 0,76$$

Sta.	T _e	T _e -E	S. Metres Meter	T - T _e
	O / "	O / "		"
Zwartkop	355 · 54 · 34	150 · 38	5 225	+ 15
Post	4 · 31 · 54	159 · 15	1 570	+ 35
Fort	91 · 26 · 19	246 · 09	2 110	- 68
Kop	E = 205° · 17'			
Geluk	256 · 21 · 33	51 · 05	3 670	+ 33

T_e — Rigting geneem by Kop Ecc.

E — Rigting waargeneem na Kop

S — Afstand na verafgeleë meetpunt

e — Eksentriese afstand

T — Verbeterde rigting.

T_e — Direction observed at Kop Ecc.

E — Observed direction to Kop.

S — Distance to distant station.

e — Eccentric distance.

T — Adjusted direction.

DIRECTION SHEET — RIGTINGSBLAD

1	2					3	4	5	6	7	8	9
	0	I	II	mean								
				gemid.								
p.2		ZWARTKOP	Δ									
Mooiploats	120	32	40	40	40	11	41				+20	61
Pad	136	51	22	22	22	11	23				+21	44
Fort	154	46	49	44	46	11	47			42	+20	67
Post	172	15	12	12	12	11	13			66	+19	32
Kop	175	55	08	08	08	11	09			32	+20	29
Geluk	207	44	16	16	17	11	18			28	+18	36
											+38	
											+19	
p.3		GELUK	Δ									
Zwartkop	27	44	30	30	30	-1	29				+7	36
Post	56	39	39	39	39	-1	38			44	+4	42
Kop	76	22	42	42	42		42			48	+6	48
Fort	81	51	30	33	32		32			38	+4	36
Uitzicht	118	32	58	54	56	11	57				+5	62
											+12	
											+6	
bl.4		FORT										
Zwartkop	334	46	50	50	50	-1	49	66	+17	69	+18	67
Pad	358	07	07	07	07	-1	06			24	+17	23
Mooiploats	60	50	61	59	60		60			80	+17	77
Uitzicht	156	59	40	42	41	11	42			62	+17	59
Geluk	261	51	16	17	16		16	38	+22	36	+20	36
Kop	271	25	32		32		32			50	+19	51
Post	309	11	06		06		06			24	+25	31
											+39	
											+20	
											+72	
											+18	
bl.5		PAD										
Zwartkop	316	51	30		30	-1	29	42	+13	44	+15	44
Mooiploats	104	18	03		03		03			18	+17	20
Fort	178	07	05		05	11	06	24	+18	21	+16	22
Post	239	55	12		12		12			28	+6	18
											+31	
											+15	
											+48	
											+16	

TRAVERSE / TREKMETING

F.B. Pg. Measured Final Join
V.B. Bl. Gemeet Eindverbinding

7	37-58:10	37-58-03 ✓	Ant +2136,89	+7169,25
	213,79	213,81 ✓		
8	51-17-05	51-17-02 ✓	T1 +22 68,43	+7337,81
	317,89	317,91 ✓		
9	17-18-05	17-18-10 ✓	T2 +2516,48	+7536,65
	216,51	216,53 ✓		
10	21-25-20	21-25-29 ✓	T3 +25 80,88	+7743,38
	197,95	197,96 ✓		
11	37-28-15	37-28-13 ✓	T4 +26 53,19	+7927,66
	516,43	516,46 ✓		
			Bear +2967,38	+8337,56
			-0,06	-0,09
(S)=146257		Class A Klas A = 0,07	Misclosure Sluitfout = 0,11	

POLARS / POOLVASSTELLINGS

T1 → BnB	318-17-10	BnB	2250,32	+7358,12
blsy. 8/pg. 8	27,21			
T2 → BnB	236-09-00	Check BnB	+2250,31	+7358,12 ✓
blsy. 9/pg. 9	320-50	Toets		
T2 → FPost	127-2530 ✓			
blsy. 9/pg. 9	51,83 ✓			
		F Post +2557,64	+7505,15	

Calculation checked by join
Berekening deur verbinding getoets

- 1 Station or Beacon
- 2 Approx. spheroidal direction
- 3 t-T
- 4 Approx. plane direction
- 5 Oriented forward direction
- 6 Provisional correction
- 7 Oriented back direction
- 8 Final correction
- 9 Final plane direction

- 1 Mastpunt of Baken
- 2 Benaderde sferoidale rigting
- 3 t-T
- 4 Benaderde vlakkerigting
- 5 Georiënteerde voorwaartse rigting
- 6 Voorlopige verbetering
- 7 Georiënteerde rugwaartse rigting
- 8 Finale verbetering
- 9 Finale vlakkerigting

Fort

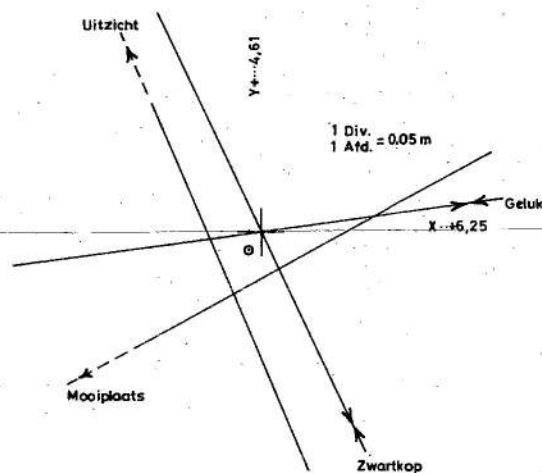
38 36 Geluk 81.51.37 S = 5733
06 09 Zwartkop 154.47.08 S = 5819

(Fort) +89 714,61 +9 716,25

- 20 Mooiplaats 240.51.20
S = 3792 +9 716,35

- 02 Uitzicht 337.00.02
+89 714,72 S = 5509

Fort +89 714,64 +9 716,29

Post

(Post) + 87 731,36 + 11 333,38

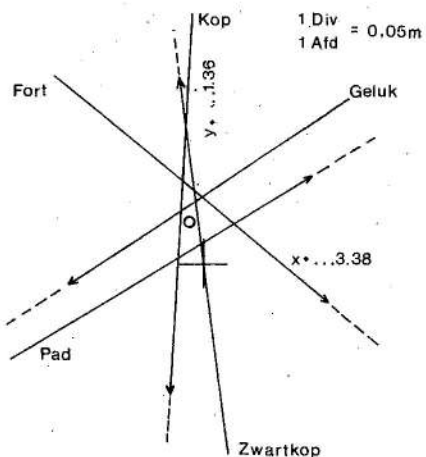
Zwartkop 172 15 32
+ 87 731,36 S = 3665

Geluk 56 39 44
S = 4419 + 11 333,24

Fort 309 11 24
S = 2559 + 11 333,24

Pad 239 55 28
S = 2189 + 11 333,33

Kop 4 33.11
+ 87 731,41 S = 1569



Post + 87 731,39 + 11 333,29

RESECTION
RUGWAARTSE INSINDING

Vide "SOUTH AFRICAN SURVEY
JOURNAL" No. 49, Dec. 1953

Orientation Correction
Rigtings Verbetering
+ 0° 0' 35"

Mooiplaats 101.05.24
Uitzicht 135.37.56
Geluk 174.15.15
Zwartkop 56.45.58

101.05.59
135.38.31
174.15.50
56.46.33

Preliminary Co-ordinates of P and Orientation correction obtained by any recognized method
Voorlopige Ko-ordinate van P en rigtings verbetering bereken deur enige aanvaarde metode

(P) +83 586,15 +13 415,29

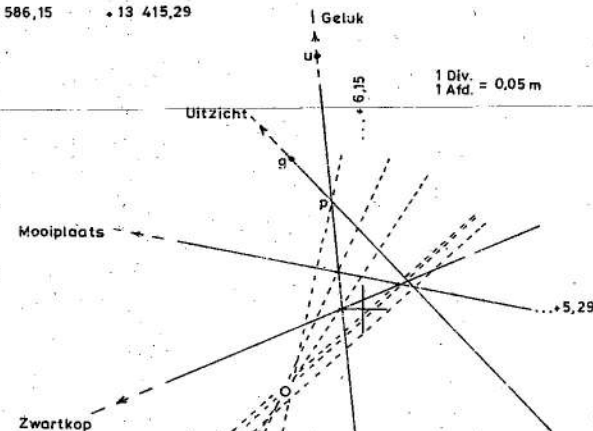
- 59 Mooiplaats 281.05.59 +6
S = 9620 +13 415,22

- 31 Uitzicht 316.38.31 +6
+83 586,00 S = 12062

- 50 Geluk 354.15.50 +6
+83 586,19 S = 4533

- 33 Zwartkop 246.46.33 +6
S = 3971 +13 415,27

P = +83 586,31 +13 415,46



Note: This is not a good fix.
Nota: Hierdie is nie 'n goeie vasstelling nie.

Tangent graph

1. Draw the tangent through p (intersection of rays from Geluk and Uitzicht) parallel to ug, where pu and pg are scaled proportionally to distances (P-Uitzicht) and (P-Geluk) resp.

2. Treat the above tangent as an oriented ray of length $\frac{PU \times PG}{UG}$, where PU = distance (P-Uitzicht), PG = distance (P-Geluk) and UG = distance (Uitzicht - Geluk)

Raaklyngrafiek

1. Teken die raaklyn deur p (snypunt van strale vanaf Geluk en Uitzicht) parallel met ug waar pu en pg geskaal is in verhouding met die afstande (P-Uitzicht) en (P-Geluk) onderskeidelik.

2. Beskou bogenoemde raaklyn as 'n georiënteerde straal met lengte $\frac{PU \times PG}{UG}$ waar PU = afstand (P-Uitzicht), PG = afstand (P-Geluk) en UG = afstand (Uitzicht - Geluk)

JOINS TO PLACE BEACONS VERBINDINGS OM BAKENS OP TE RIG

T1-BnA	235-18-20 ✓	12,57 ✓
T1-ZY	159-21-10 ✓	13,51 ✓
T1-ZX	171-24-20 ✓	21,58 ✓
ZY-BnA	289-58-50 ✓	16,07 ✓
T4-R5	12-14-30 ✓	27,14 ✓

Joins checked by polar calculation

Verbindings deur poolberekeninge getoets

OR/OF

Joins checked by repetition after calculating them all

Verbindings getoets deur hulle oor te doen nadat almal bereken is

CONSISTENCY AND AREA BESTAANBAARHEID EN OPPERVLAKTE

Berblsy Calc.pg.			Surv	+216890	+316756
59	103,66	25-01-20	Gen	+221275 00 ✓	+326149 00 ✓
63	42,75	117-41-30	Off	+225060 00 ✓	+324163 -01 ✓
42	67,10	114-21-10	Ice	+231173 00 ✓	+321395 +01 ✓
42	98,75	207-21-10	Mar	+226636 00 ✓	+312623 +01 ✓
60	105,85	292-58-50	Surv	+216890 +01 ✓	+316756 00 ✓

1,0820 ha

TRIGONOMETRICAL LEVELLING - TRIGONOMETRIESE NIVELLERING

CALCULATION OF HEIGHT DIFFERENCES

BEREKENINGE VAN HOOGTEVERSILLE

$$\text{Formula } h = S \tan \alpha \left(1 + \frac{H_1 + H_2}{2r} \right) + \frac{1-k}{2r} S^2 + \frac{1-k}{2r} S^2 \tan^2 \alpha \quad \text{Formule}$$

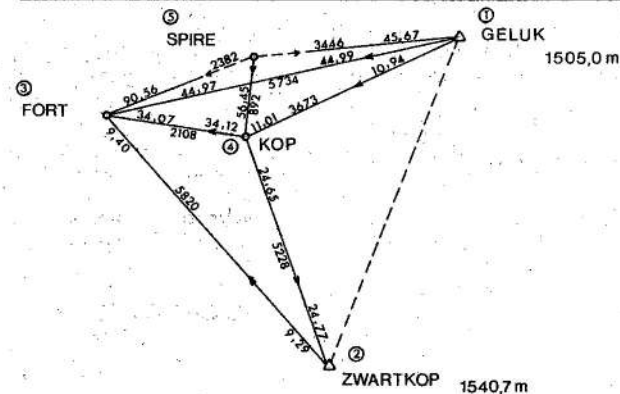
$$H_m = 1500m$$

$$1 + \frac{H_m}{r} = 1000 \text{ 2357}$$

S = Plane Distance
Vlakafstand

s = Spheroidal Distance
Stereoidaleafstand

Station : FORT	Height of Instr. above top of pipe : 1,53m			
Fieldbook p. 20	Height of top of flag above top of pipe : 1,78m			
Station Object	SPIRE Roof apex	GELUK Top of beacon	KOP Top of flag	ZWARTKOP Top of signal
Set I	- 2 . 13 . 22	- 0 . 29 . 17	- 0 . 53 . 40	- 0 . 07 . 16
Set II	- 2 . 13 . 25	- 0 . 29 . 09	- 0 . 53 . 37	- 0 . 07 . 18
Mean α	- 2 . 13 . 24	- 0 . 29 . 13	- 0 . 53 . 38	- 0 . 07 . 17
Tan α	0 . 038824	0 . 008499	0 . 015602	0 . 002119
Dist. in m = S	2381	5733	2108	5819
Dist. in m (correct) = S	2382	5734	2108	5820
S tan α	- 92,48	- 48,74	- 32,90	- 12,34
Corrn (Table I)	+ 0,39	+ 2,24	+ 0,30	+ 2,31
Ht. of Instr.	+ 1,53	+ 1,53	+ 1,53	+ 1,53
Ht. of object	- 0,00	- 0,00	- 3,00	- 0,90
Sum = h	- 90,56	- 44,97	- 34,07	- 9,40
Peilbaken : GELUK	Hoogte van Instr. bokant baken : 0,27m			
Veldboek bl. 19	Hoogte van sinjaal bokant baken : 1,20m			
	Hoogte van baken bokant grond : 1,22m			
Meetpunt Voorwerp	KOP Bopunt van vlag	FORT Bopunt van vlag	SPIRE Bopunt van dak	
Stel I	+ 0 . 11 . 54	+ 0 . 26 . 33	- 0 . 46 . 42	
Stel II	+ 0 . 11 . 58	+ 0 . 26 . 30	- 0 . 46 . 35	
Gemiddeld α	+ 0 . 11 . 56	+ 0 . 26 . 32	- 0 . 46 . 38	
Tan α	0 . 003471	0 . 007718	0 . 013566	
Afstand in m = S	3672	5733	3445	
Afstand in m (verbeterd) = S	3673	5734	3446	
S tan α	+ 12,75	+ 44,26	- 46,75	
Verbetering (Tabel I)	+ 0,92	+ 2,24	+ 0,81	
Hoogte van Instr.	+ 0,27	+ 0,27	+ 0,27	
Hoogte van voorwerp	- 3,00	- 1,78	- 0,90	
Sum = h	+ 10,94	+ 44,99	- 45,67	

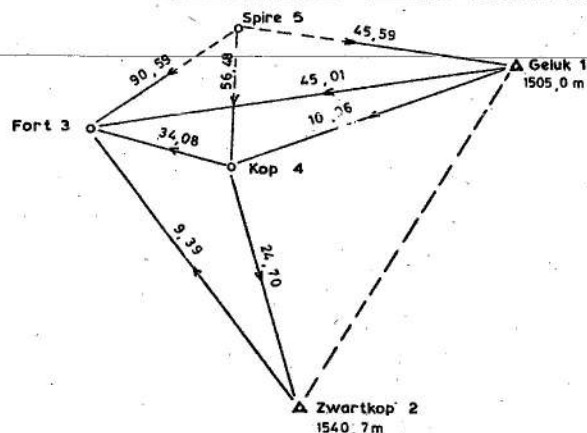


Mean height differences

Stations	N ^o	Height Difference	Weight P
Geluk	1	Metres	
	3	44,99	2
	4	44,97	2
	Mean	44,98	1
Fort	3	34,07	2
	4	34,12	2
	1	34,06	1
	Mean	34,08	1

Gemiddelde hoogteverskille

Meetpunte	N ^o	Hoogte - verskil	Gewig P
Fort	3	Metres	
	4	90,56	2
	1	90,57	1
	Gemid.	90,56	1
Geluk	1	45,67	2
	4	45,44	1
	3	45,59	1
	Gemid.	45,59	1



Final Heights

Metres above Sea Level.			Finale Hoogtes.	
			Meter bo. Seespieël.	
			Geluk. 1505,0 Zwartkop. 1540,7	Top of beacon. Bopunt van baken.
1. Geluk 1505,00 + 10,96 1515,96	2. Zwartkop 1540,70 - 24,70 1516,00		Kop 1516,0	Top of Stone. Bopunt van Klip.
1. Geluk 1505,00 + 45,01 1550,01	2. Zwartkop 1540,70 + 9,39 1550,09	4. Kop 1515,98 + 34,08 1550,06	Fort 1550,0	Top of iron pipe. Bopunt van ysterpyl.
1. Geluk 1505,00 - 45,59 1459,41	3. Fort 1550,05 - 90,59 1459,46	4. Kop 1515,98 - 56,48 1459,50	Spire 1459,5	Roof Apex. Bopunt van dak.

TABLE FOR TRIGONOMETRICAL LEVELLING

TABELLE VIR TRIGONOMETRIESE NIVELLERING

$$\text{Formula} \quad \text{Formule} \quad :- \quad h = S \tan \alpha \left(1 + \frac{H_1 + H_2}{2r} \right) + \frac{1-k}{2r} S^2 + \frac{1-k}{2r} S^2 \tan^2 \alpha$$

$$1 = \text{Table for} \quad \frac{1-k}{2r} S^2 \quad \left(\frac{\text{metres}}{\text{meter}} \right) \quad k = 0,13 \quad r = 6364836 \text{ m } (\phi = 26^{\circ})$$

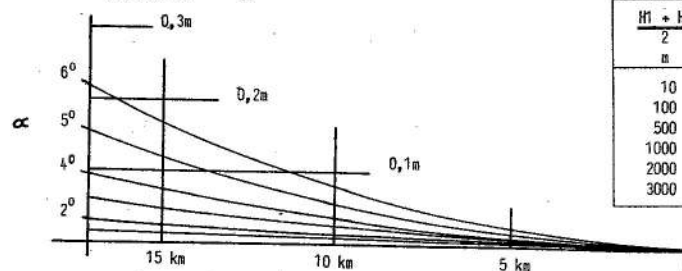
S	$\frac{1-k}{2r} S^2$	S	$\frac{1-k}{2r} S^2$	S	$\frac{1-k}{2r} S^2$	S	$\frac{1-k}{2r} S^2$	S	$\frac{1-k}{2r} S^2$
metres		metres		metres		metres		metres	
meter		meter		meter		meter		meter	
0	0,00	2600	0,46	5200	1,84	7800	4,14	10400	7,37
100	0,00	2700	0,50	5300	1,92	7900	4,25	10500	7,51
200	0,00	2800	0,53	5400	1,99	8000	4,36	10600	7,65
300	0,01	2900	0,57	5500	2,06	8100	4,47	10700	7,80
400	0,01	3000	0,61	5600	2,14	8200	4,58	10800	7,94
500	0,02	3100	0,65	5700	2,21	8300	4,69	10900	8,09
600	0,02	3200	0,70	5800	2,29	8400	4,80	11000	8,24
700	0,03	3300	0,74	5900	2,37	8500	4,92	11100	8,39
800	0,04	3400	0,79	6000	2,45	8600	5,04	11200	8,54
900	0,06	3500	0,83	6100	2,53	8700	5,15	11300	8,70
1000	0,07	3600	0,88	6200	2,62	8800	5,27	11400	8,85
1100	0,08	3700	0,93	6300	2,70	8900	5,39	11500	9,01
1200	0,10	3800	0,98	6400	2,79	9000	5,52	11600	9,16
1300	0,12	3900	1,04	6500	2,88	9100	5,64	11700	9,32
1400	0,13	4000	1,09	6600	2,97	9200	5,76	11800	9,48
1500	0,15	4100	1,14	6700	3,06	9300	5,89	11900	9,64
1600	0,17	4200	1,20	6800	3,15	9400	6,02	12000	9,81
1700	0,20	4300	1,26	6900	3,24	9500	6,15	12100	9,97
1800	0,22	4400	1,32	7000	3,34	9600	6,28	12200	10,14
1900	0,25	4500	1,38	7100	3,43	9700	6,41	12300	10,30
2000	0,27	4600	1,44	7200	3,53	9800	6,54	12400	10,47
2100	0,30	4700	1,50	7300	3,63	9900	6,67	12500	10,64
2200	0,33	4800	1,57	7400	3,73	10000	6,81	12600	10,81
2300	0,36	4900	1,64	7500	3,83	10100	6,95	12700	10,98
2400	0,39	5000	1,70	7600	3,93	10200	7,08	12800	11,16
2500	0,43	5100	1,77	7700	4,04	10300	7,22	12900	11,33

$$11 = \text{Table for} \quad 1 + \frac{H_1 + H_2}{2r}$$

$$\frac{H_1 + H_2}{2} = \text{Average height of terrain above M.S.L.}$$

$\frac{H_1 + H_2}{2}$ m	$1 + \frac{H_1 + H_2}{2r}$
10	1,000 002
100	1,000 016
500	1,000 079
1000	1,000 157
2000	1,000 314
3000	1,000 471

$$111 = \text{Graph for} \quad \frac{1-k}{2r} S^2 \tan^2 \alpha$$



THE (t-T) CORRECTION

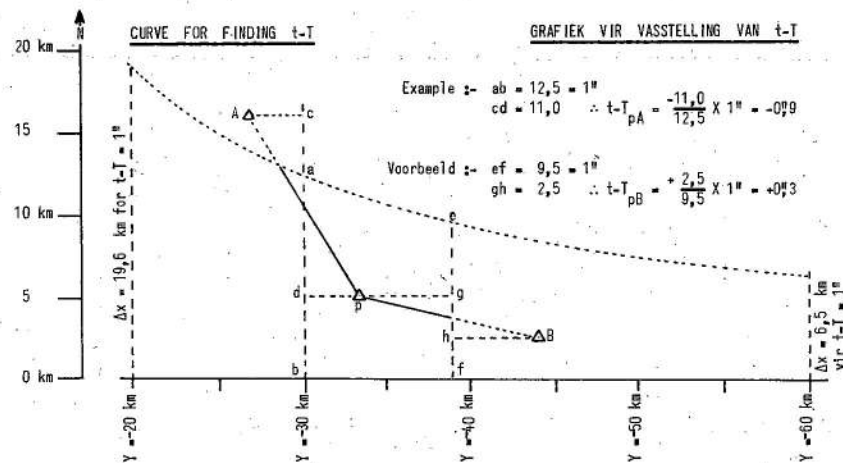
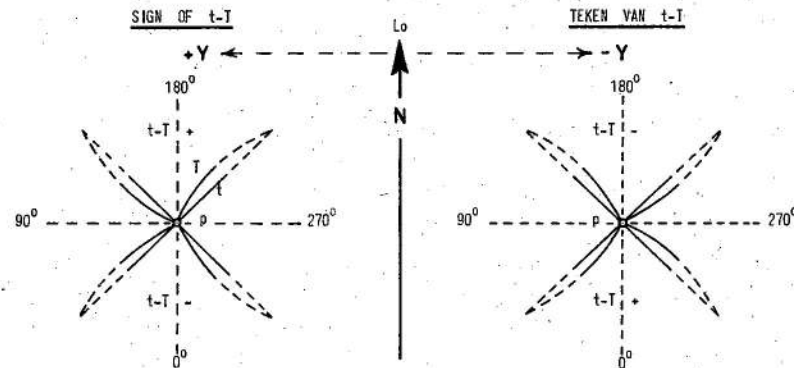
DIE (t-T) VERBETERING

$$Y = 6364836 \text{ m} ; \phi = 26^{\circ}$$

Table of X Intervals in kilometres for t-T = 1" for distance in kilometres of Y from the Lo. Meridian.

Tabel van X verskille in kilometers vir t-T = 1" vir die Y afstand in kilometers van die Lo. Meridiaan.

Y km	Δ X km t-T=1"	Y km	Δ X km t-T=1"	Y km	Δ X km t-T=1"	Y km	Δ X km t-T=1"	Y km	Δ X km t-T=1"	Y km	Δ X km t-T=1"
10	39.28	20	19.64	30	13.09	40	9.82	50	7.86	100	3.93
11	35.71	21	18.71	31	12.67	41	9.58	55	7.14	105	3.74
12	32.73	22	17.85	32	12.28	42	9.35	60	6.55	110	3.57
13	30.22	23	17.08	33	11.90	43	9.14	65	6.04	115	3.42
14	28.06	24	16.37	34	11.55	44	8.93	70	5.61	120	3.27
15	26.19	25	15.71	35	11.22	45	8.73	75	5.24	125	3.14
16	24.55	26	15.11	36	10.91	46	8.54	80	4.91	130	3.02
17	23.11	27	14.55	37	10.62	47	8.36	85	4.62	135	2.91
18	21.82	28	14.03	38	10.34	48	8.18	90	4.36	140	2.81
19	20.67	29	13.55	39	10.07	49	8.02	95	4.13	145	2.71



THE (t-T) CORRECTION

DIE (t-T) VERBETERING

This correction is appreciable only when the rays are long, and can be neglected in areas where tertiary triangulation has been completed and the distance between stations is less than 8 km. The formula for the correction in seconds of arc is :-

Hierdie verbetering is alleenlik betekenisvol wanneer strale lank is, en kan buite rekening gelaat word in gebiede waar tersiêre triangulasie voltooi is, en die afstande tussen stasies minder as 8 km is. Die formule vir hierdie verbetering in sekondes is :-

$$(t-T)'' = \frac{206265}{6r^2} (X_1 - X_2) (2Y_1 + Y_2) = \frac{206265}{2r^2} (X_1 - X_2) \frac{(Y_1 + Y_2)}{2} \text{ Approximately / benaderd}$$

$$\text{where / waar } r = 6364836 \text{ m } (\phi = 26^{\circ})$$

Sign : The sign of the t-T is the same as $(2Y_1 + Y_2)$ when the direction of the ray lies between 90° and 270° (i.e. in the Northern sector).

Teken: Die teken van die t-T is dieselfde as die van $(2Y_1 + Y_2)$ wanneer die rigting van die straal tussen 90° en 270° lê (d.w.s. in die Noordelike sektor).

The addition of the correction to the observed (Spheroidal) direction reduces the observation to the plane.

Met hierdie verbetering word die waargenome (Sferoidale) rigting aangesuiwer om die vlakrigting te verkry.

TABLE OF t-T FOR TERTIARY TRIANGULATION

TABEL VAN t-T VIR TERSIÊRE TRIANGULASIE

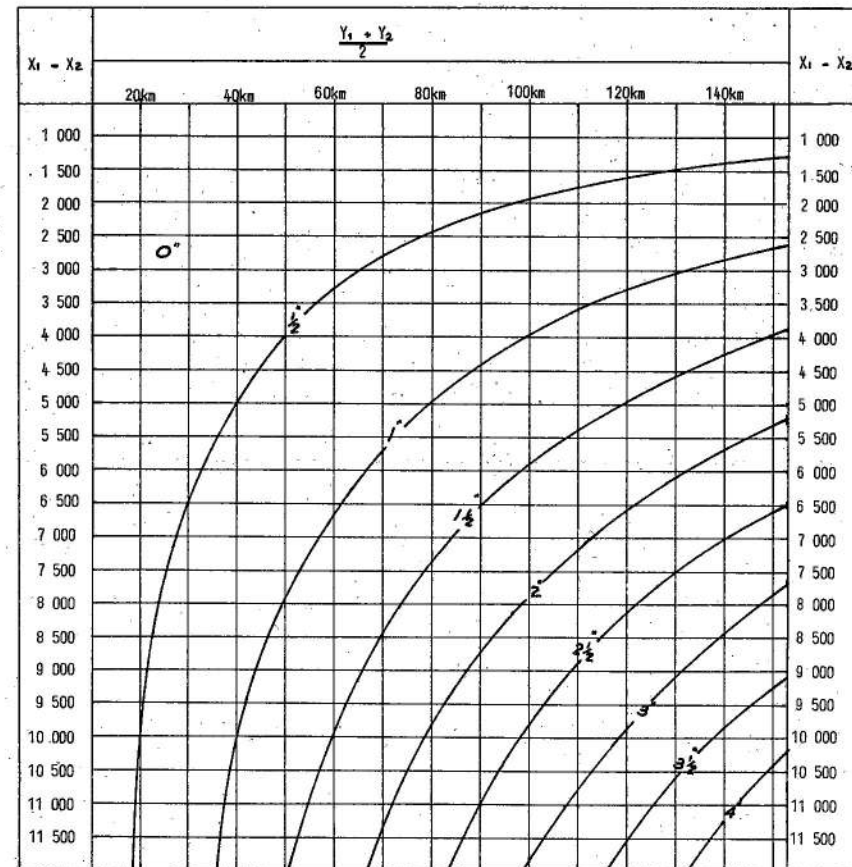


TABLE OF LIMITS OF ALLOWABLE DIFFERENCES - REG. 12
TABEL VAN TOELAATBARE VERSKILLORENSSE - REG. 12

d	0,2yd	d	0,2yd	d	0,2yd	d	0,2yd
10	0,63	260	3,22	550	4,69	1800	8,49
20	0,89	270	3,29	600	4,90	1850	8,60
30	1,10	280	3,35	650	5,10	1900	8,72
40	1,26	290	3,41	700	5,29	1950	8,83
50	1,41	300	3,46	750	5,48	2000	8,94
60	1,55	310	3,52	800	5,66	2500	10,00
70	1,67	320	3,58	850	5,83	3000	10,95
80	1,79	330	3,63	900	6,00	3500	11,83
90	1,90	340	3,69	950	6,16	4000	12,65
100	2,00	350	3,74	1000	6,32	4500	13,42
110	2,10	360	3,79	1050	6,48	5000	14,14
120	2,19	370	3,85	1100	6,63	5500	14,83
130	2,28	380	3,90	1150	6,78	6000	15,49
140	2,37	390	3,95	1200	6,93	6500	16,12
150	2,45	400	4,00	1250	7,07	7000	16,73
160	2,53	410	4,05	1300	7,21	7500	17,32
170	2,61	420	4,10	1350	7,35	8000	17,89
180	2,68	430	4,15	1400	7,48	8500	18,44
190	2,76	440	4,20	1450	7,62	9000	18,97
200	2,83	450	4,24	1500	7,75	9500	19,49
210	2,90	460	4,29	1550	7,87	10000	20,00
220	2,97	470	4,34	1600	8,00	10500	20,49
230	3,03	480	4,38	1650	8,12	11000	20,98
240	3,10	490	4,43	1700	8,25	11500	21,45
250	3,16	500	4,47	1750	8,37	12000	21,91

ACCURACY OF FIELD WORK FOR CLASS A SURVEYS
AKKURATHEID VAN VELDWERK VIR KLAS A OPMETTINGS

TRAVERSE - TREKKEETING				TRIANGULATION - TRIANGULASIE					
Reg 11 (1) (b) $\text{Class/Klas A} = (0,01 + \frac{f}{24\,000}) m$ Class/Klas B = 1,5 X A Class/Klas C = 3 X A				Reg 11 (1) (a) $\text{Class/Klas A} = 0,012 + \frac{0,082 S}{3 S + 1\,000} + \frac{0,15 S}{100\,000}$ Class/Klas B = 1,5 X A Class/Klas C = 3 X A					
f.m	A	f.m	A	S.m	A.m	A."	S.m	A.m	A."
100	0,01	1 600	0,08	100	0,02	37"	2 500	0,04	3"
200	0,02	1 700	0,08	200	0,02	24"	3 000	0,04	3"
300	0,02	1 800	0,08	300	0,03	17"	3 500	0,04	2"
400	0,03	1 900	0,09	400	0,03	14"	4 000	0,04	2"
500	0,03	2 000	0,09	500	0,03	12"	4 500	0,04	2"
600	0,04	2 100	0,10	600	0,03	10"	5 000	0,05	2"
700	0,04	2 200	0,10	700	0,03	9"	5 500	0,05	2"
800	0,04	2 300	0,11	800	0,03	8"	6 000	0,05	2"
900	0,05	2 400	0,11	900	0,03	8"	6 500	0,05	2"
1000	0,05	2 500	0,11	1000	0,03	7"	7 000	0,05	1"
1100	0,06	2 600	0,12	1200	0,04	6"	7 500	0,05	1"
1200	0,06	2 700	0,12	1400	0,04	5"	8 000	0,05	1"
1300	0,06	2 800	0,13	1600	0,04	5"	8 500	0,05	1"
1400	0,07	2 900	0,13	1800	0,04	4"	9 000	0,05	1"
1500	0,07	3 000	0,14	2000	0,04	4"	10 000	0,05	1"

GEBRUIKLIKE SIMBOLE

ALGEMENE SIMBOLE (ALMAL SWART)

BOORGAT OF PUT	
DAH	
Fontein	
GEBOU	
GEMEENSKAPLIKE MUUR	
KANAAL	
KRAGLYN	
PAD	
PEILBAKEN	
PYPLYN	
RIVIER	
SPOORLYN	
VERSEKERINGSMERK	
WARE NOORD	
WATEROOOR	
WINDPOMP	

KADASTRALE SIMBOLE KAART : (ALMAL SWART)

BAKEN	
GRENS	
GRENS, AANGRENSEND	
GRENS, SPOORLYN	
GRENS, RIVIER	
GRENS, GETYRIVIER	

WERKPLAN

		KLEUR
AANDUIDINGSPEN		SWART
BAKEN, OPGEMEET EN AANVAAR		SWART
BAKEN, OPGEMEET EN NIE AANVAAR NIE		SWART
BAKEN, GEPLAAS		SWART
BAKEN, AANVAAR VAN ANDER OPMETING		GROEN
BAKEN, BEREKEN MAAR NIE GEPLAAS NIE		GROEN
FOTOMIDDELPUNT		BLOU
GRENS		SWART
GRENS, AANGRENSEND		SWART
GRENS, OMHEIN		SWART
GEMETE BASIS		ROOI
GEMETE LYN		ROOI
MEETPUNT, GEMERK		ROOI
MEETPUNT, NIE GEMERK NIE		ROOI
GEBOU		GROEN ARSEER

MET DIE INKLEUR VAN KAARTE EN ALGEMENE PLANNE MOET DIE PROSEDURES SOOS DEUR DIE VERSKILLENDE
LANDMETERS GENERAAL NEERGELE, GEVOLG WORD.

CONVENTIONAL SYMBOLS

GENERAL SYMBOLS (ALL BLACK)

BOREHOLE OR WELL	
BUILDING	
CANAL	
DAH	
FURROW	
PARTY WALL	
PIPE LINE	
POWER LINE	
RAILWAY LINE	
REFERENCE MARK	
RIVER	
ROAD	
SPRING	
TRUE NORTH	
TRIGONOMETRICAL STATION	
WINDMILL	

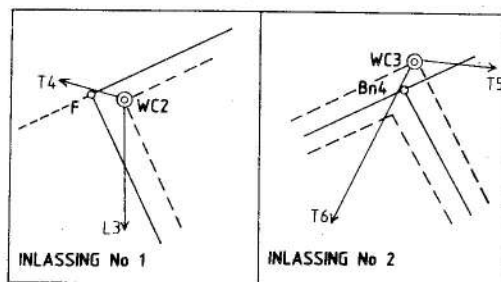
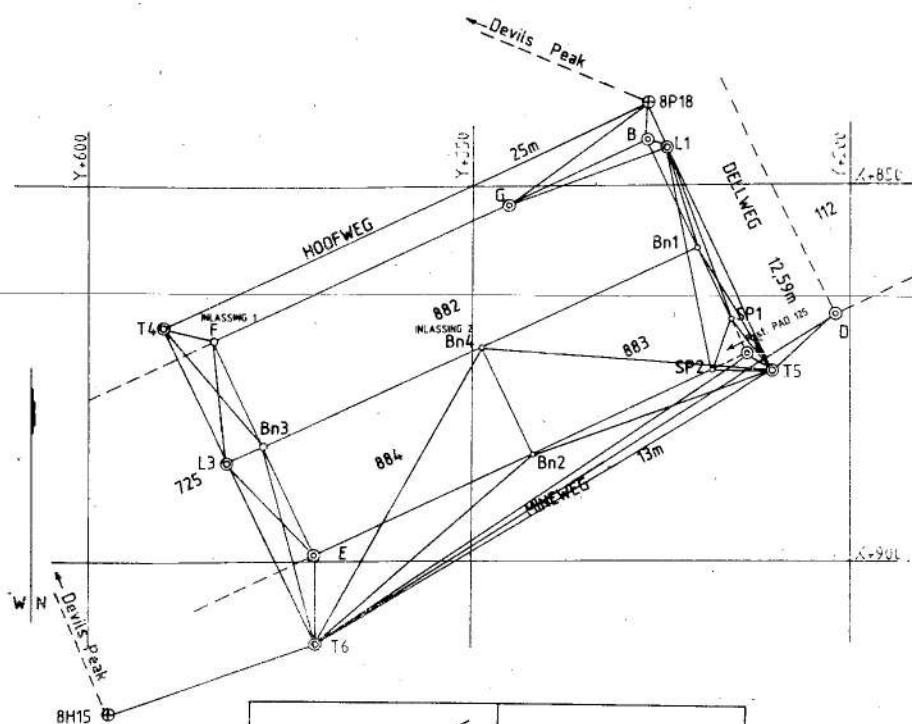
CADASTRAL SYMBOLS DIAGRAM : (ALL BLACK)

BEACON	
BOUNDARY	
BOUNDARY, ADJOINING	
BOUNDARY, RAILWAY	
BOUNDARY, RIVER	
BOUNDARY, TIDAL RIVER	

WORKING PLAN

		COLOUR
BEACON, SURVEYED AND ADOPTED		BLACK
BEACON, SURVEYED AND NOT ADOPTED		BLACK
BEACON, PLACED		BLACK
BEACON, ADOPTED FROM OTHER SURVEY		GREEN
BEACON, CALCULATED BUT NOT PLACED		GREEN
BOUNDARY		BLACK
BOUNDARY, ADJOINING		BLACK
BOUNDARY, FENCED		BLACK
MEASURED BASE		RED
MEASURED LINE		RED
PHOTO CENTRE		BLUE
STATION, MARKED		RED
STATION, UNMARKED		RED
WITNESS MARK		BLACK
BUILDING		GREEN HATCHING

THE PROCEDURES PRESCRIBED BY THE VARIOUS SURVEYORS GENERAL MUST BE FOLLOWED WHEN COLOURING
IS USED ON DIAGRAMS AND GENERAL PLANS.



Voorbeelde van tipiese verduidelikende inlassings
(Nie noodwendig volgens skaal nie)

WERKPLAN.

van
Opmeting van

Erwe 882 - 884, gedeeltes van Erf 125 WETTON
geleë te Wetton in die Munisipaliteit van Kaapstad
Administratiewe Distrik KAAP

Provinsie Kaap die Goeie Hoop

Skaal 1:500

BESKRYWING VAN BAKENS:

Gevind	C,D,G	12mm Ronde ysterpen
	B,E	12mm Ronde ysterpen in beton
Geplaas	Bn4	12mm Gat bo-in muur geboor
	Bn1,Bn2,Bn3,	12mm Ronde ysterpen
	SP1,SP2,	12mm Ronde ysterpen 0,17m wes van hoek van gebou
	F	
Werkspunte	8P18,8H15	Versekeringsmerk
	L3,T5,T6	12mm Ronde ysterpen
	T4,L1	Grootkopspyker
	WC2	Hoek van gebou
	WC3	Hoek van muur

NOTA:

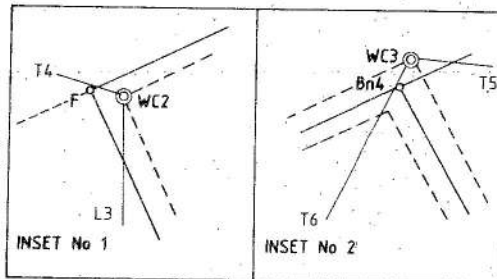
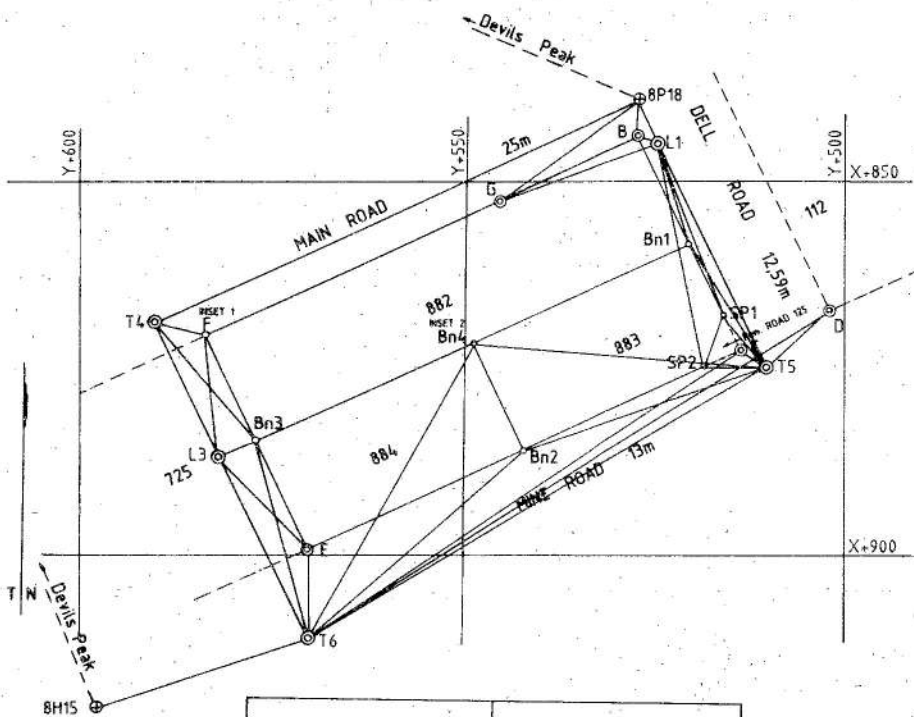
Vir volledige verduidelikende
beskrywings van bakens
sien Werkplan van
landelike opmeting

Opgemeeit deur my in ooreenstemming met die
bepalings van die Opmetingswet en die
regulasies daarkragtens opgestel.

Meetstukke No
Komp.
Alg. Plan

Januarie 1978

Landmeter



Examples of typical explanatory insets
(Not necessarily to scale)

WORKING PLAN

of
Survey of
Erven 882 - 884, portions of Erf 125 WETTON
situate at Wetton in the Municipality of Cape Town
Administrative District of CAPE
Province of Cape of Good Hope
Scale 1:500

DESCRIPTION OF BEACONS:

Found	C,D,G B,E	12mm Round iron peg 12mm Round iron peg in concrete
Placed	Bn4 Bn1,Bn2,Bn3, SP1,SP2, F	12mm Hole drilled in top of wall 12mm Round iron peg 12mm Round iron peg 0,17m west of corner of building
Working Points	8P18,8H15, L3,T5,T6 T4,L1 WC2 WC3	Reference Mark 12mm Round iron peg Stud Corner of building Corner of wall

NOTE:
For full explanatory
description of beacons
see Working plan of
rural survey

Surveyed by me in accordance with the
provisions of the Land Survey Act
and the regulations framed thereunder.

January 1978

Land Surveyor

Survey Record No
Comp. Plan
Gen. Plan

WERKPLAN

OPMETING VAN
Gedeelte 12 (n gedeelte van Gedeelte 1) van
die plaas HOPE No 751
Administratiewe Distrik KAAP
Provinsie Kaap die Goeie Hoop

SERWITUUTNOTA:

Die lyn E1 E2 stel die middellyn van 'n Elektriese
Kraglynservituut 10 meter wyd voor

BESKRYWING VAN BAKENS

GEVIND:

Man	Ysterspoersaafhoekpaal met klipstapel en 3 aanduidingspenne op 5,00m
Riv,Don	25mm Ysterpyp in beton onder klipstapel
Jan	20mm Ysterpen en klipstapel met 3 aanduidingspenne op 5,00m
Std	Ysterstander gelyk met grond
Sand	Ysterdraadpaal

AANGENEEM VAN MEETSTUK-NR 23/1971:

NR 12 Ysterspoersaafhoekpaal met klippe

GEPLAAS:

SL	20mmx900mm ysterpen en klipstapel met 3 aanduidingspenne op 5,00m
Water, Van	20mm ysterpen onder klipstapel
Tin	20mmx900mm ysterpen en klipstapel met 2 aanduidingspenne op 7,50m en 5,00m

BEREKEN:

Trunk, Bend Nie gebaken nie

MEETPUNTE:

Fort, Kop	12mm Gat bo-in groot rots
Post, Pad, T1, T4	6mm Ysterpen onder klipstapel
Pole 1, Pole 2	Betongpaal
Paal	Ysterdraadpaal
Aux, T2, T3	Nie gemerk nie

AANDUIDINGSPENNE:

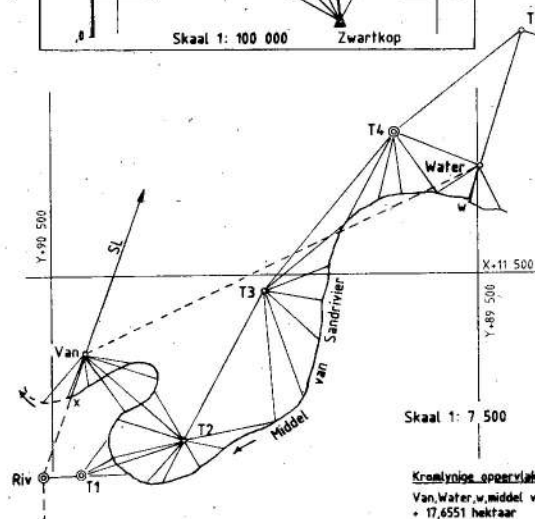
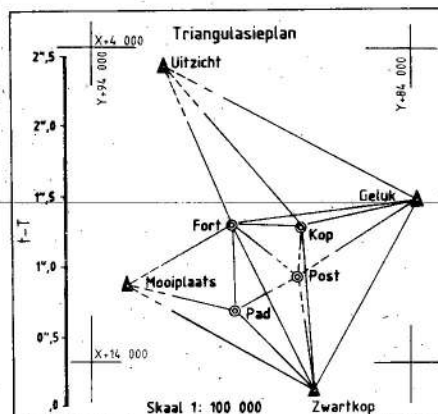
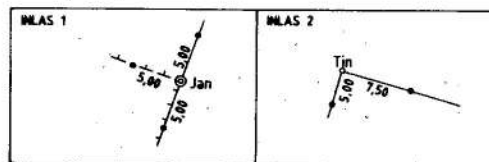
Almal 12mmx450mm Ysterpen

Opgemete deur my in ooreenstemming met die
bepalings van die Opmetingswet en die
regulasies daarkragtens opgestel

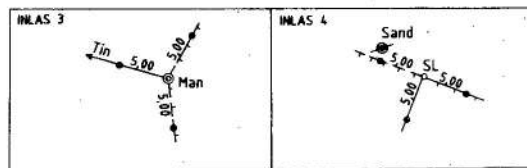
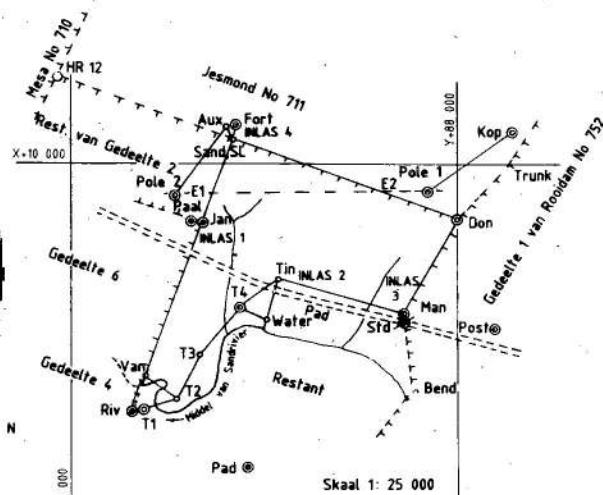
Maart 1978

Landmeter

Meetsstukke No
Komp Plan
Alg Plan



Kromlynige oppervlakte
Van, Water, w, middel van Sandrivier, x
+ 17,6551 hektaar



WORKING PLAN

Survey of
Portion 12 (a portion of Portion 1) of
the farm HOPE No 751
Administrative District of CAPE
Province of the Cape of Good Hope

Servitude note:
The line E1 E2 represents the centre line of an Electric
Power line servitude 10 metres wide

DESCRIPTION OF BEACONS

FOUND:
Man Iron rail corner fence post with cairn and 3 witness marks at 5,00m
Riv, Don 25mm iron pipe in concrete under cairn
Jan 20mm iron peg and cairn with 3 witness marks at 5,00m
Std iron standard flush with ground
Sand Iron fencing standard

ADOPTED FROM SURVEY RECORD No. 23/1971:
HR12 Iron rail corner fence post with stones

PLACED:
SL 20mm x 900mm iron peg and cairn with 3 witness marks at 5,00m
Water, Van 20mm iron peg under cairn
Tin 20mm x 900mm iron peg and cairn with 2 witness marks at 7,50m and 5,00m

CALCULATED:
Trunk, Bend Not beacons

STATIONS:
Fort, Kop 12mm Hole in top of large rock
Post, Pad, T1, T4 6mm iron peg under cairn
Pole 1, Pole 2 Concrete pole
Paal Iron fence post
Aux, T2, T3 Not marked

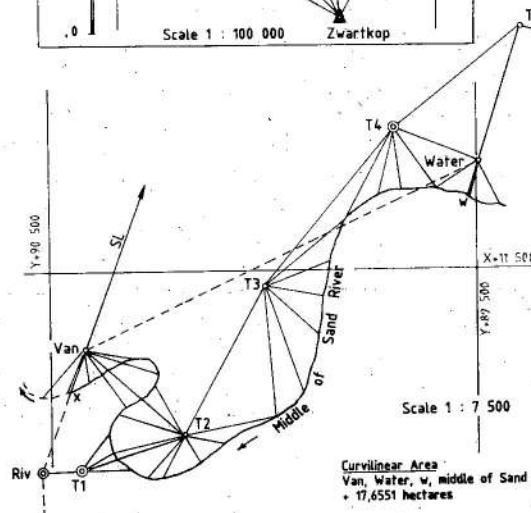
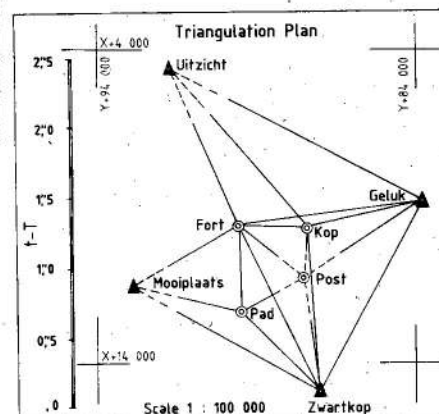
WITNESS MARKS:
All 12mm x 450mm iron peg

Surveyed by me in accordance with the provisions
of the Land Survey Act and Regulations framed
thereunder.

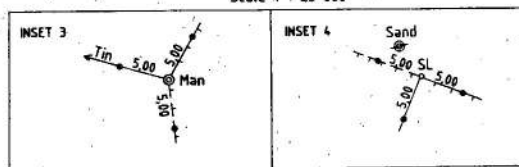
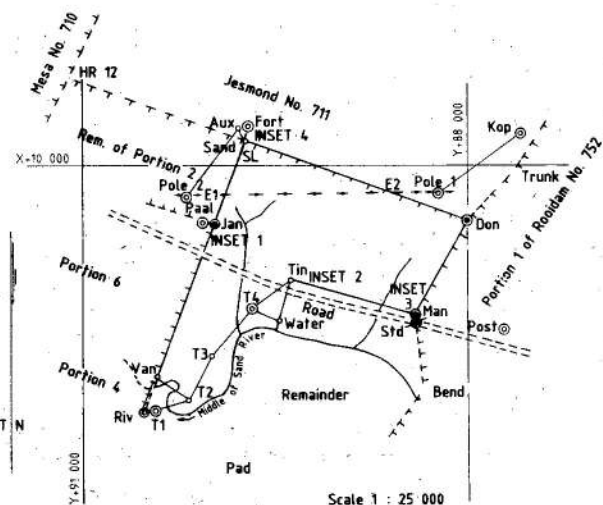
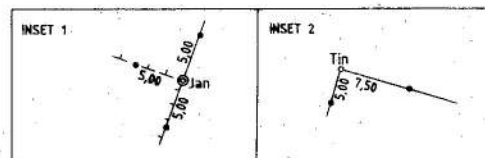
March 1978

Land Surveyor

Survey Record
No. E
Comp. Plan
Gen. Plan



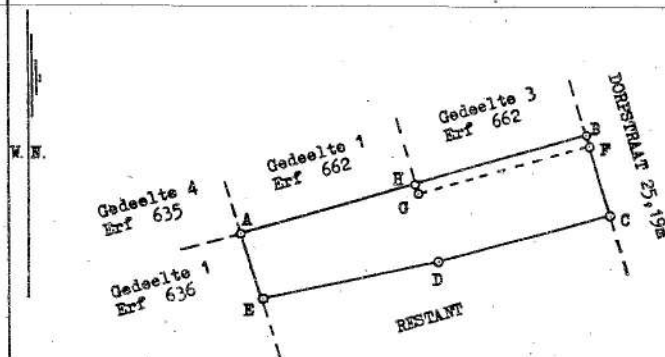
Curvilinear Area
Van, Water, w, middle of Sand River, x
= 17,6551 hectares



SIE Meter		RIJTINGS- HOEKE	KOORDINATE Y Stelsel Lo 29° X		L.G. No.
AB	75,56	Konstantes	- 40 000	+2 640 000	GOEDGEKEUR
BC	17,63	258 00 30	A - 6 855,83	+ 5 448,92	
CD	37,78	348 00 30	B - 6 929,74	+ 5 433,22	
DE	37,90	78 00 30	C - 6 933,40	+ 5 450,47	
EA	14,67	82 29 30	D - 6 896,45	+ 5 458,32	
		168 00 30	E - 6 858,88	+ 5 463,27	mms. LANDMETER- GENERAAL
EF	2,00	SEWITUUTGEBIED	F - 6 930,16	+ 5 435,18	
FG	37,78	348 00 30	G - 6 893,20	+ 5 443,03	
GH	2,00	78 00 30	H - 6 892,79	+ 5 441,07	
HB	37,78	258 00 30			
		11204	@ - 6 923,52	+ 5 345,41	
		12304	@ - 6 976,72	+ 5 591,16	

BESKRYWING VAN BAKENS

A,B,C,D,E,F,G,H 12mm ysterpenne

SERWITUUTNOTA

Die figuur HCFG stel voor n Serwituutgebied 2 meter wyd

Skaal 1:1 000

Die figuur A B C D E

stel voor 1 276 vierkante meter
GEDEELTE 2 van ERF 663
van die dorp PIETERSBURG

Provinsie Transvaal
 Opgemeet in April 1977 deur my

grond synde

Landmeter

Hierdie kaart is geheg aan

No.
 ged.
 t.g.v.

Registrateur van Aktes

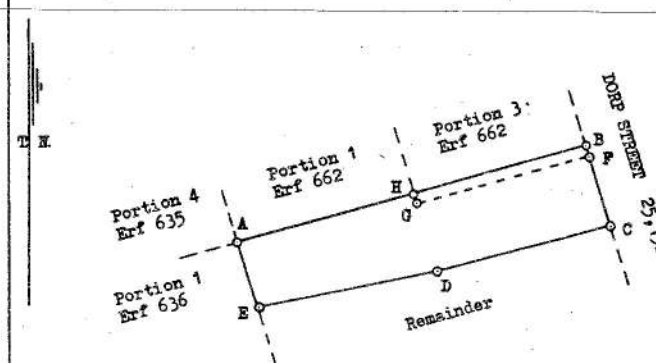
Die oorspronklike kaart is
 L.G. No. 52/1896
 Transport 618/1896

Lêer
 M.S.
 Alg. Plan TP 701
 Komp. LSNN-441

SIDES METRES		ANGLES OF DIRECTION	CO-ORDINATES Y System Lo 29° X		S.G. No.
AB	75,56	Constants	-40 000	+2 640 000	APPROVED
BC	17,63	258 00 30	A - 6 855,83	+ 5 448,92	
CD	37,78	348 00 30	B - 6 929,74	+ 5 433,22	
DE	37,90	78 00 30	C - 6 933,40	+ 5 450,47	
EA	14,67	82 29 30	D - 6 896,45	+ 5 458,32	
		168 00 30	E - 6 858,88	+ 5 463,27	for SURVEYOR- GENERAL
EF	2,00	SEWITUUTGEBIED	F - 6 930,16	+ 5 435,18	
FG	37,78	348 00 30	G - 6 893,20	+ 5 443,03	
GH	2,00	78 00 30	H - 6 892,79	+ 5 441,07	
HB	37,78	258 00 30			
		11204	@ - 6 923,52	+ 5 345,41	
		12304	@ - 6 976,72	+ 5 591,16	

BEACON DESCRIPTION

A,B,C,D,E,F,G,H 12mm iron pegs

SERVITUDE NOTE

The figure HCFG represents a Servitude Area 2 metres wide

Scale 1:1 000

The figure A B C D E

represents 1 276 square metres of land being
PORTION 2 OF ERF 663
TOWNSHIP OF PIETERSBURG

Province of Transvaal
 Surveyed in April 1977 by me

Land Surveyor

This diagram is annexed to

No.
 dated

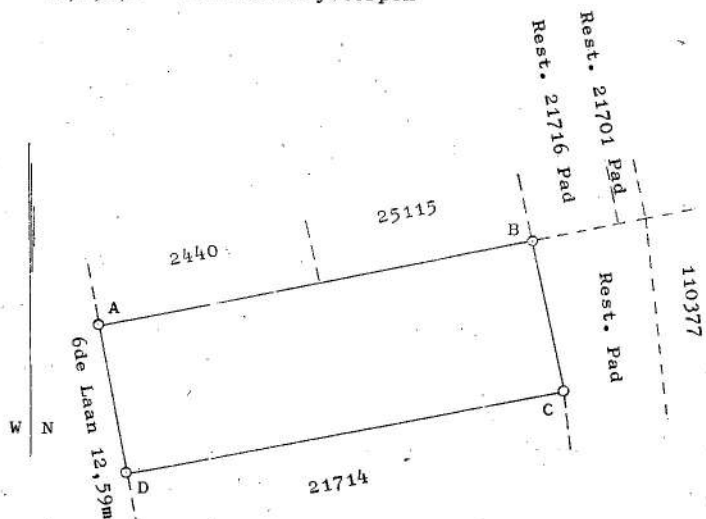
Registrar of Deeds

The original diagram is
 S.G.No. 52/1896
 Transfer 618/1896

File
 S.R.
 Gen. Plan TP 701
 Comp. LSNN-441

SYE Meter	RIGHTINGS- HOEKE	KOORDINATE		L.G. No.
		Y	Stelsel Lo 19° X	
AB 42,80	Konstante	+40 000,00	+3750 000,00	Goedgekeur
BC 15,02	258 08 10	A + 5 811,09	+ 3 594,92	
CD 43,46	345 36 00	B + 5 769,20	+ 3 586,12	Landmeter- generaal.
DA 14,97	78 11 00	C + 5 765,46	+ 3 600,67	
	168 05 40	D + 5 808,00	+ 3 609,57	
	2 P 5 ⊕	+ 5 848,85	+ 3 458,97	
	20 P 5 ⊕	+ 5 817,70	+ 3 608,25	

BAKENS:
A,B,C,D 12mm ronde ysterpen



Skaal 1:500

Die figuur ABCD
stel voor 647 vierkante meter grond, synde

ERF 110538 gedeelte van Erf 21715 KAAPSTAD
geleë te Maitland in Kensington Landgoed Reserwe
in die Munisipaliteit van Kaapstad
Administratiewe Distrik KAAP
Provinsie Kaap die Goeie Hoop.

Opgemeet in Februarie 1976
deur my,

Landmeter.

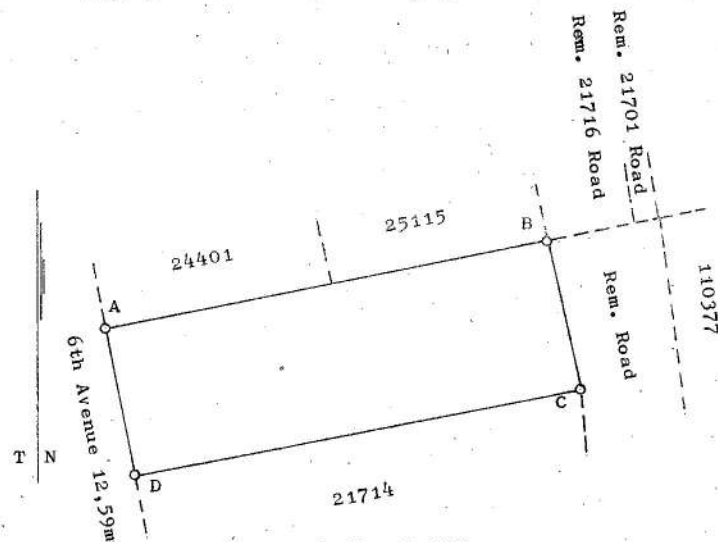
Hierdie kaart is
geheg aan
No.
gedateer
t.g.v.
Registrateur van Aktes

Die oorspronklike
kaart is
No. 1871/1925
geheg aan
T/A 1926-102-4789

Lêer No.
M.S. No.
Komp.BH-8CA/X13
(1291)
Alg.Plan K.52
(2980)

SIDES Metres	ANGLES OF DIRECTION	CO-ORDINATES		S.G. No.
		Y	System Lo 19° X	
AB 42,80	Constant	+40 000,00	+3750 000,00	Approved
BC 15,02	258 08 10	A + 5 811,09	+ 3 594,92	
CD 43,46	345 36 00	B + 5 769,20	+ 3 586,12	Surveyor- General.
DA 14,97	78 11 00	C + 5 765,46	+ 3 600,67	
	168 05 40	D + 5 808,00	+ 3 609,57	
	2 P 5 ⊕	+ 5 848,85	+ 3 458,97	
	20 P 5 ⊕	+ 5 817,70	+ 3 608,25	

BEACONS:
A,B,C,D 12mm round iron peg



Scale 1:500

The figure ABCD
represents 647 square metres of land, being

ERF 110538 portion of Erf 21715 CAPE TOWN

situate at Maitland in Kensington Estate Reserve
in the Municipality of Cape Town
Administrative District of CAPE
Province of Cape of Good Hope.

Surveyed in February 1976
by me,

Land Surveyor.

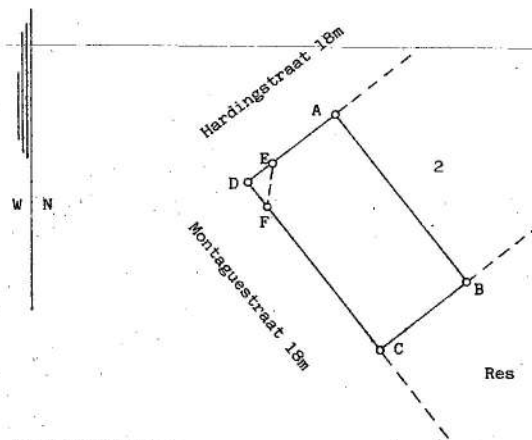
This diagram is
annexed to
No.
dated
i.f.o.
Registrar of Deeds

The original
diagram is
No. 1871/1925
annexed to
D/T 1926-102-4789

File No.
S.R. No.
Comp.BH-8CA/X13
(1291)
Gen.Plan K.52
(2980)

SYE METER	RIGTINGS	KOÖRDINATE			L.G. No.
		Y	STELSEL	Lo 29° X	
AB	44,33	322 27 20	A - 90 000,00	+ 3 070 000,00	Goedgekeur
BC	22,91	52 25 00	B - 1 727,98	+ 2 026,07	
CD	44,32	142 27 10	C - 1 754,99	+ 2 061,22	
DA	22,91	232 24 40	D - 1 736,84	+ 2 075,19	Landmeter-Generaal
DE	6,10	232 24 40	E - 1 709,83	+ 2 040,05	
EF	8,63	7 25 50	F - 1 714,66	+ 2 036,33	
FD	6,10	142 27 10	F - 1 713,54	+ 2 044,88	
		11 M8	⊕ - 1 572,68	+ 1 878,22	
		54 M8	⊕ - 1 818,36	+ 2 198,17	

Die figuur D E F stel 'n Serwituutpad voor.



Bakenbeskrywing

A,B,C,E,F - 12mm ysterpenne

D - 12mm ysterpyp 0,1m wes van houthoekpaal

SKAAL: 1 : 1 000

Die figuur A B C D

stel voor 1 015 vierkante meter

grond synde

ONDERVERDELING 1 VAN ERF 599 NEWCASTLE

geleë in Munisipaliteit Newcastle,

Administratiewe Distrik en Provinsie Natal.

Opgemeet in November 1973

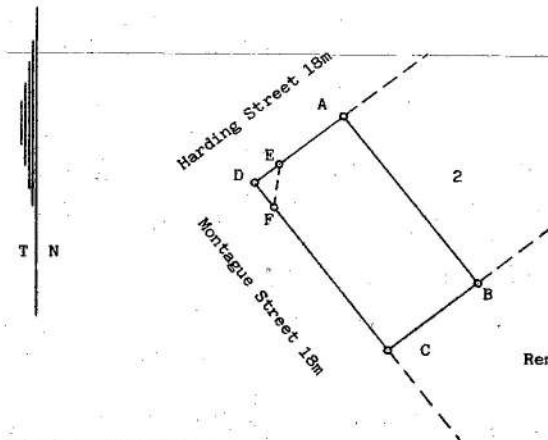
deur my

Landmeter

Hierdie kaart is geheg aan	Die oorspronklike kaart is	Lêer
No.	Gr. Bun.	M.S. No.
	No. 59 Fol. 101	Komp. HS-8B-4B-3
	Transfer/Grondbrief	Graadvel 14
Registrateur van Aktes.	No. 3100	

SIDES METRES	DIRECTIONS	CO-ORDINATES			S.G. No.
		Y SYSTEM	Lo 29°	x	
AB	44,33	322 27 20	A - 90 000,00	+ 3 070 000,00	Approved
BC	22,91	52 25 00	B - 1 727,98	+ 2 026,07	
CD	44,32	142 27 10	C - 1 754,99	+ 2 061,22	
DA	22,91	232 24 40	D - 1 736,84	+ 2 075,19	Surveyor-General
DE	6,10	232 24 40	E - 1 709,83	+ 2 040,05	
EF	8,63	7 25 50	F - 1 714,66	+ 2 036,33	
FD	6,10	142 27 10	F - 1 713,54	+ 2 044,88	
		11 M8	⊕ - 1 572,68	+ 1 878,22	
		54 M8	⊕ - 1 818,36	+ 2 198,17	

The figure D E F represents a Road Servitude.



Beacon Description

A,B,C,E,F - 12mm iron pegs

D - 12mm iron pipe 0,1m west of wooden corner post

SCALE: 1 : 1 000

The figure A B C D

represents 1 015 square metres

of land, being

SUB 1 OF LOT 599 NEWCASTLE

situate in the Borough of Newcastle,

Administrative District and Province of Natal.

surveyed in November 1973

by me

Land Surveyor

This diagram relates to	The original diagram is Gr.	File No.
No.	Vol. No. 59 Fol. 101	S.R. No.
	Transfer/Grant	Comp. HS-8B-4B-3
Registrar of Deeds.	No. 3100	Degree Sheet 14

SYE METER		RIGTINGS	KOÖRDINATE			L.G. No.
			Y	STELSEL	Lo 31° x	
		Konstantes	+	50 000,00	+ 3 280 000,00	<i>Goedgekeur</i> <i>Landmeter-Generaal</i>
AB	640,06	278 06 10	A	+ 6 653,28	+ 3 609,93	
BC	699,50	347 13 08	B	+ 6 019,60	+ 3 700,15	
CD	642,75	87 05 00	C	+ 5 864,85	+ 4 382,31	
DA	818,32	169 41 10	D	+ 6 506,77	+ 4 415,03	
		238	Δ	+ 9 388,65	+ 3 889,06	
		274	Δ	+ 7 872,04	+ 6 418,09	

Die figuur d e f g stel 'n Elektriese Kraglynserwituut 54,86 meter wyd voor. Volgens kaart L.G. Nr. 1992/1968 en Serwituutakte Nr. 404/1969^s

Ukulinga
Nr. 14068

Res van 218 van Shortts Retreat
Nr. 1802

van Creep Nr. 12793

Bakenbeskrywing
A - 30mm ysterpyp in S.A.S. beton blok
B, D - 20mm ysterpenne en klipstapels
C - 20mm ysterpyp en klipstapel

SKAAL: 1 : 12 500

Die figuur A B C D
stel voor 46,9957 hektaar *grond synde*

ONDERVERDELING 24 (VAN 23) VAN DIE PLAAS MUSTY BARK NR.15130

geleë in *Administratiewe Distrik en Provinsie Natal.*

Opgemeet in Augustus 1973 en Maart 1975

deur my *Landmeter*

Hierdie kaart is geheg aan No.	Die oorspronklike kaart is Ond. Bun. No. 502 Fol. 83 Transport/Grondbrief No. 1109/1937	Lêer M.S. No. Komp. FT-5D Graadvel 58
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Registrateur van Aktes.

SIDES METRES		DIRECTIONS	CO-ORDINATES			S.G. No.
			Y SYSTEM	Lo 31°	x	
		Constants	+	50 000,00	+ 3 280 000,00	<i>Approved</i> <i>Surveyor-General</i>
AB	640,06	278 06 10	A	+ 6 653,28	+ 3 609,93	
BC	699,50	347 13 08	B	+ 6 019,60	+ 3 700,15	
CD	642,75	87 05 00	C	+ 5 864,85	+ 4 382,31	
DA	818,32	169 41 10	D	+ 6 506,77	+ 4 415,03	
		238	Δ	+ 9 388,65	+ 3 889,06	
		274	Δ	+ 7 872,04	+ 6 418,09	

The figure d e f g represents an Electric Power Transmission Line Servitude 54,86 metres wide. Vide diagram S.G. No. 1992/1968 and Deed of Servitude No. 404/1969^s

Ukulinga
No. 14068

Rem of 218 of Shortts Retreat
No. 1802

of Creep No. 12793

Beacon Description
A - 30mm iron pipe in S.A.R. concrete block
B, D - 20mm iron pegs and cairns
C - 20mm iron pipe and cairn

SCALE: 1 : 12 500

The figure A B C D
represents 46,9957 hectares *of land, being*

SUB 24 (OF 23) OF THE FARM MUSTY BARK NO.15130

situate in the Administrative District and *Province of Natal.*

surveyed in August 1973 and March 1975

by me *Land Surveyor*

This diagram relates to No.	The original diagram is Sub. Vol. No. 502 Fol. 83 Transfer/Grant No. 1109/1937	File No. S.R. No. Comp. FT-5D Degree Sheet 58
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Registrar of Deeds.

ONDERVERDELINGSKAART

VEL 1 VAN 2 VELLE

OVERVEDELINGSKAART

VEL 1 VAN 2 VELLE

SYE Meter	RIGTINGS- HOEKE	Y	KOÖRDINATE: Stelsel: Lo. 29°	X	L.G. No.
	KONSTANTE		+ 60 000,00	3120000,00	
AB 325,38	290 42 30	A + 4 571,27	5 243,53	Goedgekeur	
BC 1 020,08	348 11 00	B + 4 266,91	5 358,59		
CD 554,56	63 54 20	C + 4 058,03	6 357,05		
DE 434,44	190 04 50	D + 4 556,07	6 600,97		
EA 934,18	174 23 40	E + 4 480,03	6 173,24	nms. Landmeter-generaal	
Serwituutdata					
Cc' 15,47	168 11 00	c' + 4 061,20	6 341,91		
Dd' 18,58	190 04 50	d + 4 552,82	6 582,68		
Pielandshoek (96)		Δ + 3 738,81	5 184,79		
Signal Hill (106)		Δ + 6 486,15	4 385,55		

BAKENBESKRYWINGS

A,B ... Halwe ysterpaal wat $\pm$ 100mm. uitsteek.
C,D,c',d ... Halwe ysterpaal in grip.
E ... Kliphoeckraadpaal.

SERWITUUTNOTAS

- Die lyn a b stel voor die middellyn van 'n Elektriese Kraglyn Serwituut.
Sien kaart LG.No. 1234/1959 ; Akte van Serwituut No. 77^S/1960.
- Die figuur d c' C D stel voor 'n Serwituutpad 15,00 meter wyd.

Die figuur A B C D E

stel voor 42,4952 hektaar

grond synde,

Onderverdeling 1 van die plaas NARWANDA No. 1805

getel in Administratiewe Distrik Bethlehem

Provinsie Oranje-Vrystaat

Opgemeet in Augustus 1977 tot Januarie 1978

deur my,

Landmeter.

A.N. Name.

Hierdie kaart is geheg aan

Die oorspronklike kaart

is

Leër No.

No.

No.

geheg aan

M.S. No.

gedateer

Transport/Grondbrief

Komp. GR-1D-22/D

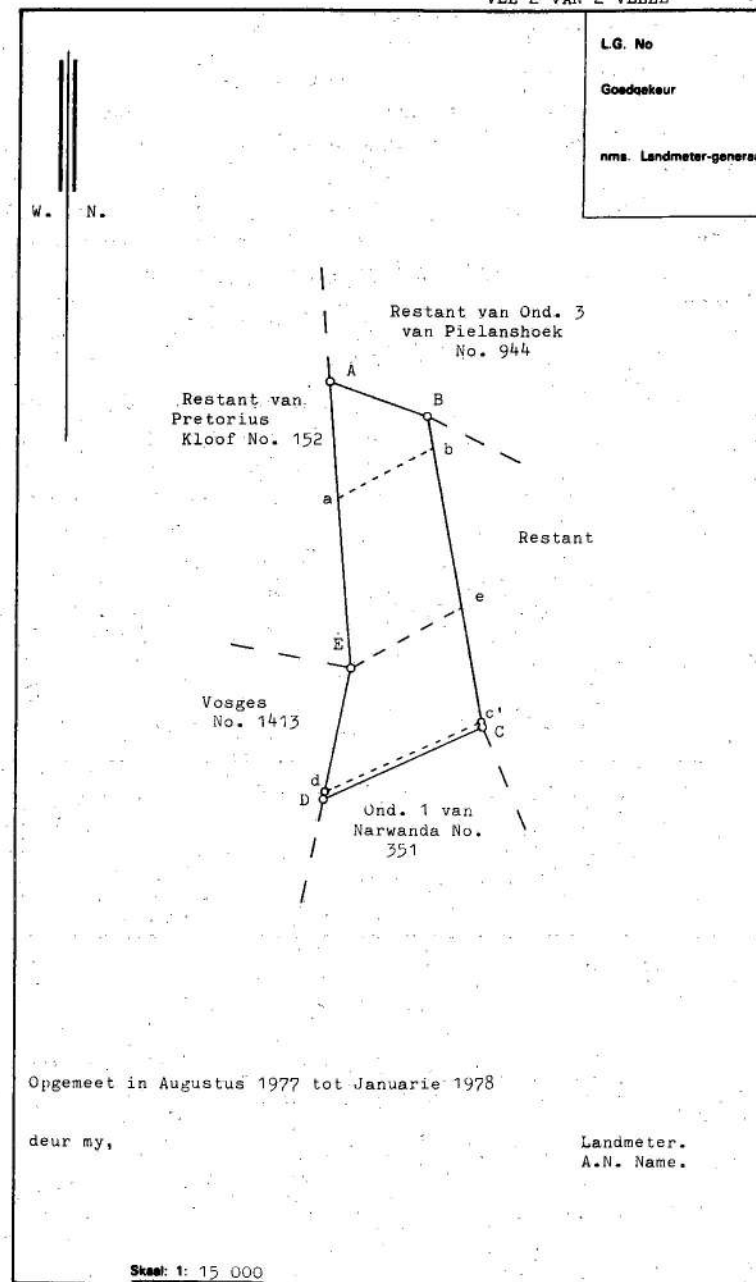
t.g.v.

No.

Wet/Akt 70/1970
No. 5898
d.d. 1977-08-15

Registateur van Aktes.

VEL 2 VAN 2 VELLE



Opgemeet in Augustus 1977 tot Januarie 1978

deur my,

Landmeter.
A.N. Name.

Skaal: 1: 15 000

SIDES Metres		ANGLES OF DIRECTION	CO-ORDINATES System Lo. 29°		S.G. No.	
			Y	X		
Constants			A	+ 60 000,00	+ 3120000,00	Approved
AB	325,38	290 42 30	A	+ 4 571,27	+ 5 243,53	
BC	1 020,08	348 11 00	B	+ 4 266,91	+ 5 358,59	
CD	554,56	63 54 20	C	+ 4 058,03	+ 6 357,05	
DE	434,44	190 04 50	D	+ 4 556,07	+ 6 600,97	
EA	934,18	174 23 40	E	+ 4 480,03	+ 6 173,24	
Servitude data						for Surveyor-General
Cc'	15,47	168 11 00	c'	+ 4 061,20	+ 6 341,91	
Dd'	18,58	190 04 50	d	+ 4 552,82	+ 6 582,68	
Pielandshoek	(96)	▲	A	+ 3 738,81	+ 5 184,79	
Signal Hill	(106)	▲	A	+ 6 486,15	+ 4 385,55	

DESCRIPTION OF BEACONS

- A,B ... Half iron standard projecting + 100mm.
 C,D,c',d ... Half iron standard in trench.
 E ... Stone corner fence post.

SERVITUDE NOTES

- The line a b represents the centre line of an Electric Power Line Servitude.
See diagram SG.No. 1234/1959 ; Deed of Servitude No. 77^s/1960
- The figure d c' C D represents a Servitude Road 15,00 metres wide.

Scale 1:15 000

The figure A B C D E

represents 42,4952 hectares

of land being

Subdivision 1 of the farm NARWANDA No. 1805

situate in Administrative District Bethlehem

Province of Orange Free State

Surveyed in August 1977 to January 1978

by me,

A.N. Name. Land Surveyor.

This diagram is annexed to

The original diagram is

File No.

No.

S.R. No.

dated

No.

annexed to

Comp. GR-1D-22/D

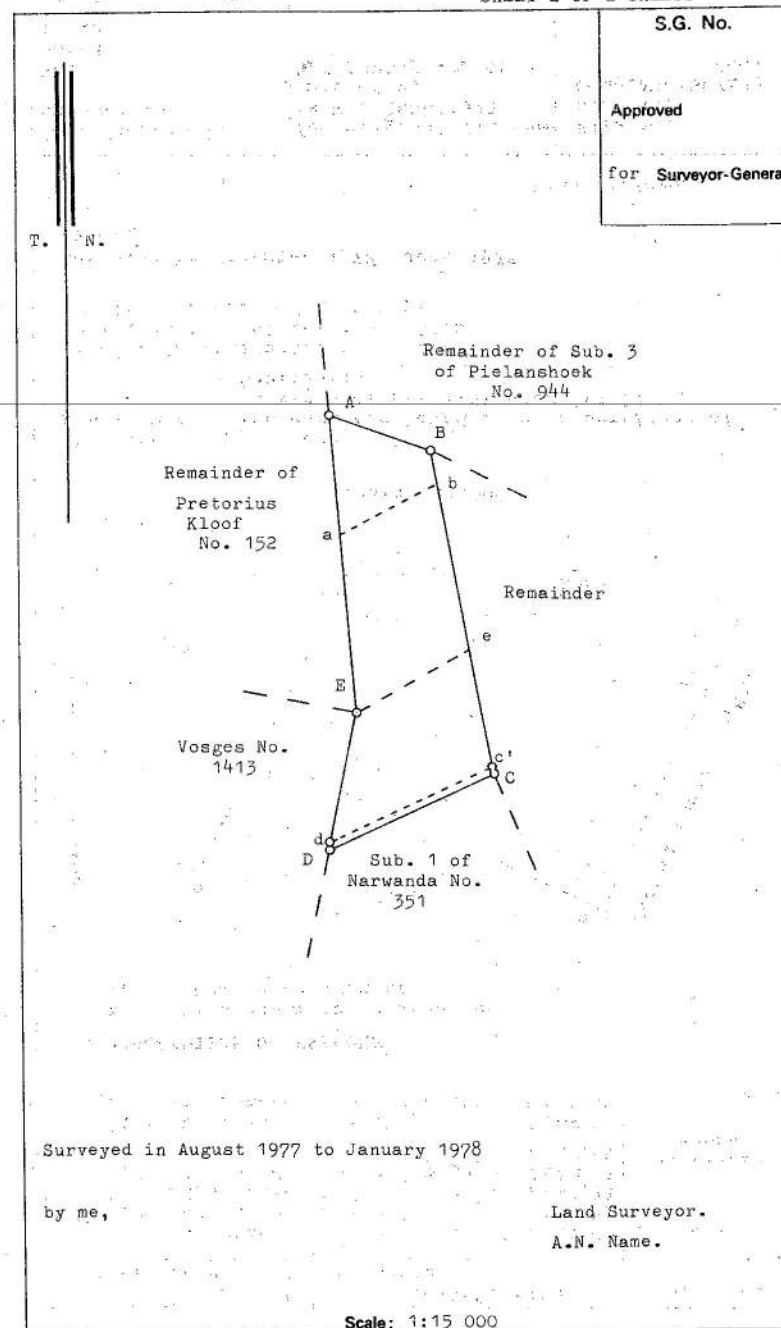
i.f.o.

Transfer/Grant

No.

Project 5898
 No. 1977-08-15

Registrar of Deeds

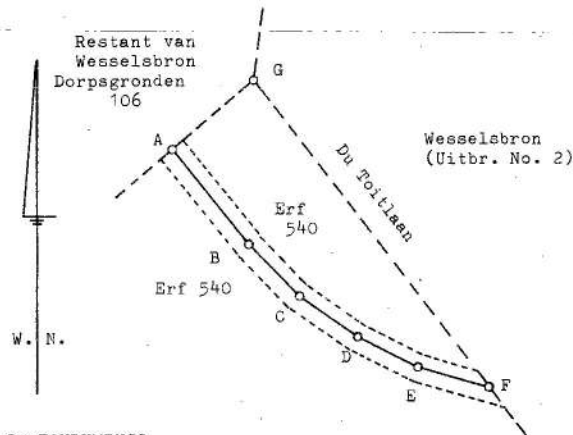


SYE Meter		RIGTINGS- HOEKE	KOORDINATE Y Stelsel Lo 19° X		L.G. No.
ab	72,98	Konstante	+50 000,00	+3760 000,00	Goedgekeur Landmeter- generaal.
bc	47,50	244 16 50	a + 2 923,03	+ 7 078,99	
		333 50 20	b + 2 857,28	+ 7 047,32	
ad	26,00	153 51 00	c + 2 836,34	+ 7 089,95	
			d + 2 934,49	+ 7 055,65	
Δ(115) Cecilia			+ 4 223,03	+ 3 109,39	
Δ(73) Vlakkenberg			+ 5 486,65	+ 6 582,34	
BESKRYWING VAN BAKENS:					
a,b 12 x 450mm ronde ysterpen					
c,d 12mm ronde ysterpen					
Skaal 1:1000					
Die lyn a b stel voor die Noordelike grens van 'n serwituut van toegang 6 meter wyd oor Erf 7297 Constantia geleë in Constantia Plaaslike Gebied Administratiewe Distrik KAAP Provinsie Kaap die Goeie Hoop. Opgemeet in Desember 1972, Junie 1975 deur my, Landmeter.					
Hierdie kaart is geheg aan		Die oorspronklike kaart is		Lêer No.	
No.		No. 3688/1975		M.S. No.	
gedateer		geheg aan		Komp.AH-1BB/X33	
t.g.v.		T/A 1975-57-32198		(60)	
Registrateur van Aktes					

SIDES Metres		ANGLES OF DIRECTION	CO-ORDINATES Y System Lo 19° X		S.G. No.
ab	72,98	Constant	+50 000,00	+3760 000,00	Approved Surveyor- General.
bc	47,50	244 16 50	a + 2 923,03	+ 7 078,99	
		333 50 20	b + 2 857,28	+ 7 047,32	
ad	26,00	153 51 00	c + 2 836,34	+ 7 089,95	
			d + 2 934,49	+ 7 055,65	
Δ(115) Cecilia			+ 4 223,03	+ 3 109,39	
Δ(73) Vlakkenberg			+ 5 486,65	+ 6 582,34	
DESCRIPTION OF BEACONS:					
a,b 12 x 450mm round iron peg					
c,d 12mm round iron peg					
Scale 1:1000					
The line a b represents the Northern boundary of a servitude of access 6 metres wide over Erf 7297 Constantia situate in Constantia Local Area Administrative District of CAPE Province of Cape of Good Hope. Surveyed in December 1972, June 1975 by me, Land Surveyor.					
This diagram is annexed to		The original diagram is No. 3688/1975 annexed to		File No.	
No.		D/T 1975-57-32198		S.R. No.	
dated				Comp.AH-1BB/X33	
i.f.o.				(60)	
Registrar of Deeds					

SERWITUUTKAART

SYE Meter	RIGTINGS- HOEKE	Y	KOORDINATE Stelsel: Lo. 27°	X	L.G. No.
AB	50,50	KONSTANTE	A	+ 0,00 +3000000,00	Goedgekeur
BC	29,98	322 09 00	B	+ 62 855,99 + 80 721,95	
CD	28,97	316 05 40	C	+ 62 825,00 + 80 761,82	
DE	28,97	304 57 50	D	+ 62 804,21 + 80 783,42	nms.
EF	29,97	296 15 50	E	+ 62 780,47 + 80 800,02	Landmeter-generaal
		285 07 30	F	+ 62 754,49 + 80 812,84	
				+ 62 725,56 + 80 820,66	
Konneksies					
AG	42,50	228 44 20	G	+ 62 824,04 + 80 693,92	
FG	160,50	142 09 00			
Zoetvlei	(76)		Δ	+ 62 908,97 + 80 763,46	
Wesselsbron	(71)		Δ	+ 63 839,62 + 80 293,99	



BAKENBESKRYWINGS.
A,B,C,D,E,F ... 12mm Ysterpen.
G ... Ysterpen en klipstapel

Skaal 1:2 000

Die figuur lyn A B C D E F

stel voor die middellyn van 'n waterpyplynserwituut 13,00 meter wyd soos aangetoon oor

ERF No. 540 WESSELSBRON

geleë in Administratiewe Distrik Wesselsbron

Opgemette in September 1976

Provinciaal Oranje-Vrystaat

deur my,

Landmeter.

A.N. Name.

Hierdie kaart is gehêg aan

No.

gedateer

t.g.v.

Registateur van Aktes.

Die oorspronklike kaart

No.

Transport/Grondbrief

No.

is

geheg aan

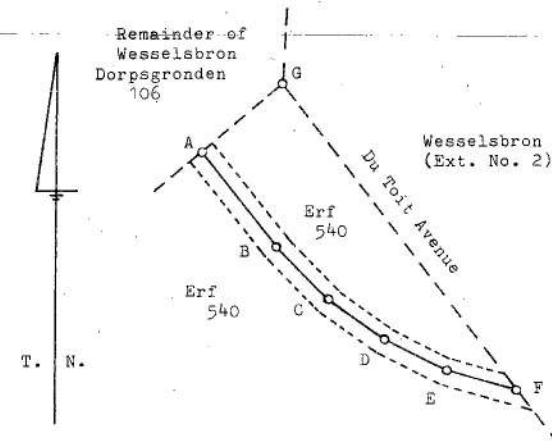
Leër No.

M.S. No.

Komp.

SERVIDE DIAGRAM

SIDES Metres	ANGLES OF DIRECTION	Y	CO-ORDINATES System: Lo. 27°	X	S.G. No.
AB	50,50	Constants	A	+ 0,00 +3000000,00	Approved
BC	29,98	322 09 00	B	+ 62 855,99 + 80 721,95	
CD	28,97	316 05 40	C	+ 62 825,00 + 80 761,82	
DE	28,97	304 57 50	D	+ 62 804,21 + 80 783,42	
EF	29,97	296 15 50	E	+ 62 780,47 + 80 800,02	for Surveyor-General
		285 07 30	F	+ 62 754,49 + 80 812,84	
				+ 62 725,56 + 80 820,66	
Connections					
AG	42,50	228 44 20	G	+ 62 824,04 + 80 693,92	
FG	160,50	142 09 00			
Zoetvlei	(76)		Δ	+ 62 908,97 + 80 763,46	
Wesselsbron	(71)		Δ	+ 63 839,62 + 80 293,99	



DESCRIPTION OF BEACONS

A,B,C,D,E,F ... 12mm Iron peg
G ... Iron peg and cairn.

Scale 1:2 000

The figure line A B C D E F

represents the centre line of a water pipeline servitude 13,00 metres wide as shown over

ERF No. 540 WESSELSBRON

situate in Administrative District Wesselsbron

Province of Orange Free State

Surveyed in September 1976

by me,

A.N. Name.

Land Surveyor.

This diagram is annexed to

No.

dated

i.f.o.

Registrar of Deeds

The original diagram is

No.

annexed to

Transfer/Grant

No.

File No.

S.R. No.

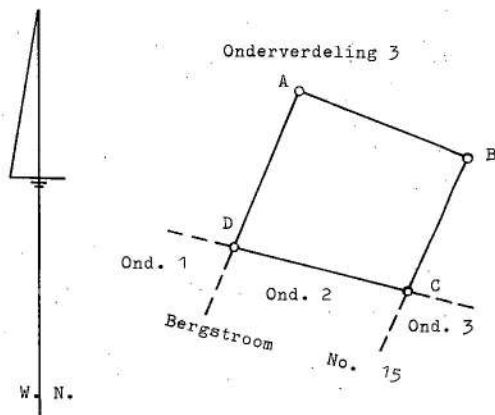
Comp.

SERWITUUTKAART

SYE Meter	RIGTINGS- HOEKE	Y	KOÖRDINATE Stelsel: Lo. 27°	X	L.G. No.
	KONSTANTE		+	0,00 +2900000,00	
AB 283,80	294 34 40	A	-92 516,80	+ 76 915,61	Goedgekeur.
BC 218,62	23 47 20	B	-92 774,89	+ 77 033,65	
CD 290,20	105 56 51	C	-92 686,70	+ 77 233,69	nms.
DA 262,14	204 36 10	D	-92 407,67	+ 77 153,96	Landmeter-generaal
Weltevreden (94)	Δ	-92 974,93	+ 81 704,53		
Amelia (529)	Δ	-89 604,45	+ 71 439,42		

BAKENBESKRYWINGS.

A,B ... 150mm Pypsterdraadpaal in beton
C,D ... 20mm x 300mm Ronde ysterpen



Skaal 1:7 500

Die figuur A B C D

stel voor 'n Serwituutgebied op

Onderverdeling 3 van die plaas BIRMINGHAM No. 1116

geleë in Administratiewe Distrik Heilbron

Opgemaat in Januarie 1977

deur my,

grond-synde,

Provinsie Oranje-Vrystaat

Landmeter.

A.N. Name.

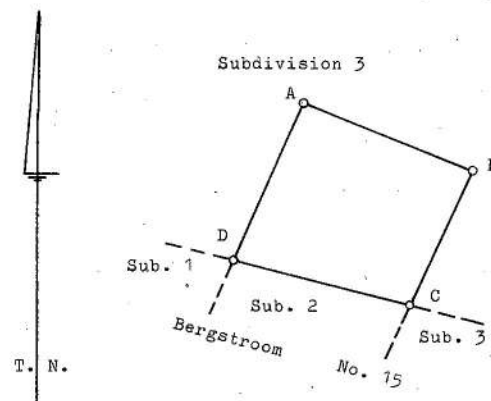
Hierdie kaart is gehêg aan	Die oorspronklike kaart	is	Leër No.
No.	No.	geheg aan	M.S. No.
gedateer	Transport/Grondbrief		Komp.
t.g.v.	No.		
Registateur van Aktes.			

SERVIDE DIAGRAM

SIDES Metres	ANGLES OF DIRECTION	Y	CO-ORDINATES System: Lo. 27°	X	S.G. No.
	Constants		+	0,00 +2900000,00	
AB 283,80	294 34 40	A	- 92 516,80	+ 76 915,61	Approved
BC 218,62	23 47 20	B	- 92 774,89	+ 77 033,65	
CD 290,20	105 56 51	C	- 92 686,70	+ 77 233,69	
DA 262,14	204 36 10	D	- 92 407,67	+ 77 153,96	
Weltevreden (94)	Δ	- 92 974,93	+ 81 704,53		for Surveyor-General
Amelia (529)	Δ	- 89 604,45	+ 71 439,42		

DESCRIPTION OF BEACONS.

A,B ... 150mm Tubular iron fence post in concrete.
C,D ... 20mm x 300mm Round iron peg.



Scale 1:7 500

The figure A B C D

represents a Servitude Area on

Subdivision 3 of the farm BIRMINGHAM No. 1116

situate in Administrative District Heilbron

Province of Orange Free State

Surveyed in January 1977

by me,

Land Surveyor.

A.N. Name.

This diagram is annexed to	The original diagram is	File No.
No.	No.	annexed to
dated	Transfer/Grant	S.R. No.
i.f.o.		Comp.
Registrar of Deeds No.		

SYE Meter		RIGTINGS- HOEKE	L.G. No.
AB	7,07	277 51 30	GOEDGEKEUR
BC	65,00	322 51 30	
CD	36,50	52 51 30	
DE	70,00	142 51 30	
EA	31,50	232 51 30	nms. LANDMETER-GENERAAL

BESKRYWING VAN BAKENS
A,B,C,D,E 12mm x 450mm ysterpen

Skaal 1:1 000

SERVITUUTNOTA
Die figuur hCDj stel voor n Servituut van Reg van Weg, 5,00 meter wyd
Sien kaart L.G. No. A4198/61, Transport No. 7371/1962

Die figuur A B C D E
stel voor 2 543 vierkante meter grond synde
ERF 1379

van die dorp PROTEAPARK UITBREIDING No. 1
en bestaan uit: 1: Die figuur ABFG synde Erf 1226 volgens Algemene Plan
L.G. No. A2510/73, Transport No. 17931/1974.
2: Die figuur FCDG synde Erf 1229 volgens Algemene Plan
L.G. No. A2510/73, Transport No. 35267/1973.

Provinsie Transvaal
Saamgestel in April 1977 deur my
Landmeter

Hierdie kaart is geheg aan
No.
ged.
t.g.v.
Registrateur van Aktes

Léer
M.S.
Alg. Plan L.G. No.
A 2510/1973
Komp. JRNZ-144
TP 4321

SIDES Metres		ANGLES OF DIRECTION	S.G. No.
AB	7,07	277 51 30	APPROVED
BC	65,00	322 51 30	
CD	36,50	52 51 30	
DE	70,00	142 51 30	
EA	31,50	232 51 30	for SURVEYOR-GENERAL

BEACON DESCRIPTION
A,B,C,D,E 12mm x 450mm iron peg

SCALE 1:1 000

SERVITUDE NOTE
The figure hCDj represents a Servitude of Right of Way, 5,00 metres wide
Vide diagram S.G. No. A4198/61, Transfer No. 7371/1962

The figure A B C D E
represents 2 543 square metres of land being
ERF 1379

of PROTEAPARK EXTENSION 1 TOWNSHIP
and comprising: 1. The figure ABFG being Erf 1226. Vide General Plan
S.G. No. A2510/73, Transfer No. 17931/1974.
2. The figure FCDG being Erf 1229. Vide General Plan
S.G. No. A2510/73, Transfer No. 35267/1973.

Province of Transvaal
Compiled in April 1977 by me
Land Surveyor

This diagram is annexed to
No.
dated
i.f.o.
Registrar of Deeds

File
S.R.
Gen. Plan S.G.No.
A 2510/1973
Comp. JRNZ-144
T.P. 4321

SYE Meter		HOEKE		L.G. No. Goedgekeur Landmeter-generaal
AB	37,78	A	90 00 00	
BC	31,49	B	90 00 00	
CD	37,78	C	90 00 00	
DA	31,49	D	90 00 00	

BESKRYWING VAN BAKENS:
A,B,C,D 12mm ysterpen

KOMPONENTE:
(1) Die figuur AxyD stel Erf 35826 Kaapstad voor
Sien kaart No. 2531/1963 T/A 1963-148-7354.
(2) Die figuur xBCy stel Erf 35825 Kaapstad voor
Sien kaart No. 2530/1963 T/A 1963-148-7354.

Die figuur A B C D
stel voor 1 190 vierkante meter grond, synde
ERF 110873 KAAPSTAD en bevat (1) en (2) soos hierbo
geleë te Athlone in Athlone Dorpsuitbreiding No. 1
in die Munisipaliteit van Kaapstad
Administratiewe Distrik KAAP Provinsie Kaap die Goeie Hoop

Saamgestel in September 1976
deur my,

Landmeter

Hierdie kaart is geheg aan
No.
gedateer

Registrateur van Aktes

Lêer No.
M.S. No.
Komp. BH-8CC/Y22 (1439)
Alg. Plan TP 1076

SIDES Metres		ANGLES		S.G. No. Approved Surveyor-General
AB	37,78	A	90 00 00	
BC	31,49	B	90 00 00	
CD	37,78	C	90 00 00	
DA	31,49	D	90 00 00	

DESCRIPTION OF BEACONS:
A,B,C,D 12mm iron peg

COMPONENTS:
(1) The figure AxyD represents Erf 35826 Cape Town
Vide Dgm. No. 2531/1963 D/T 1963-148-7354.
(2) The figure xBCy represents Erf 35825 Cape Town
Vide Dgm. No. 2530/1963 D/T 1963-148-7354.

The figure A B C D
represents 1 190 square metres of land, being
ERF 110873 CAPE TOWN comprising (1) and (2) above
situate at Athlone in Athlone Township Ext. No. 1
in the Municipality of Cape Town
Administrative District of CAPE Province of Cape of Good Hope

Compiled in September 1976
by me,

Land Surveyor

This diagram is annexed to
No.
dated

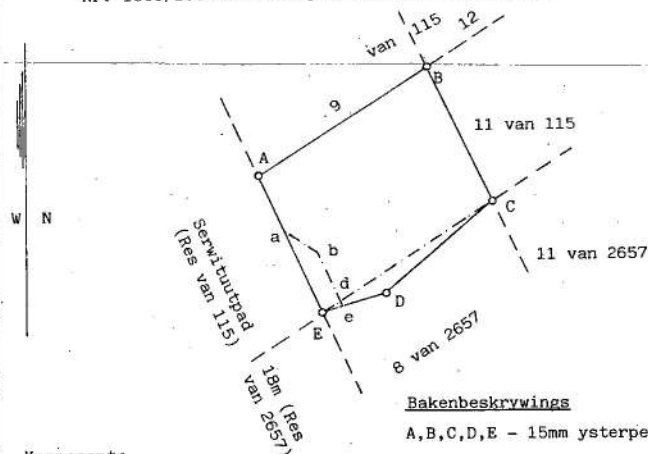
Registrar of Deeds

File No.
S.R. No.
Comp. BH-8CC/Y22 (1439)
Gen. Plan TP 1076

SYE METER		RIGTINGS	KOÖRDINATE				L.G. No.
			Y	STELSEL	Lo 31°	X	
		Konstantes		+	0,00	+ 3 300 000,00	
AB	51,36	235 58 10	A	+	9 153,35	+ 3 635,68	Goedgekeur
BC	39,16	334 33 00	B	+	9 110,80	+ 3 606,94	
CD	36,92	48 47 30	C	+	9 093,97	+ 3 642,31	
DE	15,75	73 00 00	D	+	9 121,75	+ 3 666,64	
EA	39,22	155 02 50	E	+	9 136,81	+ 3 671,24	
							Landmeter-Generaal

Serwitute

- (i) Die figuur E a b d stel 'n Serwituutpad voor. Volgens kaart L.G. Nr. 1805/1960 en Transportakte Nr. 12518/1969.
- (ii) Die figuur E d e stel 'n Serwituutpad voor. Volgens kaart L.G. Nr. 1809/1960 en Transportakte Nr. 12560/1971.

Bakenbeskrivings

A,B,C,D,E - 15mm ysterpenne

Komponente

- Die Figuur A B C E stel Onderverdeling 10 van Erf 115 Westville voor. Volgens kaart L.G. Nr. 1815/1960 en Transportakte Nr. 15096/1971.
- Die Figuur C D E stel Onderverdeling 12(van 8) van Erf 2657 Westville (Uitbreiding Nr.7) voor. Volgens kaart L.G. Nr. 2788/1976 en Transportakte Nr. T.12114/1976.

SKAAL: 1 : 1 250

Die figuur A B C D E

stel voor 2 114 vierkante meter

grond synde

ERF 2978 WESTVILLE

en bestaan uit 1 en 2 soos hierbo aangetoon
geleë in Munisipaliteit Westville, Administratiewe Distrik en Provinsie Natal.
Saamgestel in September 1976

deur my

Landmeter

Hierdie kaart is geheg aan

No.

Registrateur van Aktes.

Lêer /86

M.S. No.

Komp. FT-8B-24-A

Graadvel 59

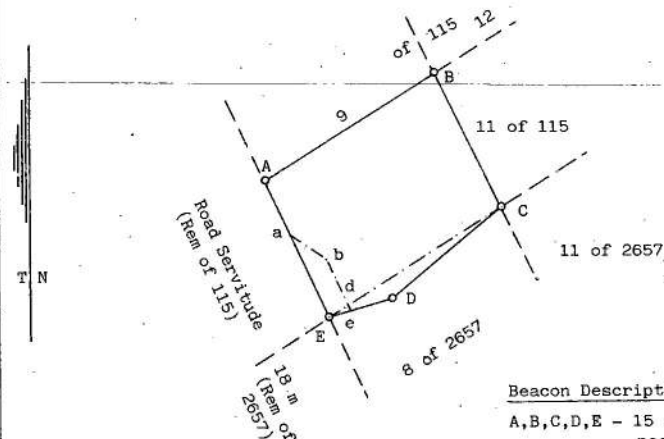
SIDES METRES		DIRECTIONS	CO-ORDINATES Lo 31°			S.G. No.
			Y SYSTEM		X	
		Constants	+	0,00	+ 3 300 000,00	
AB	51,36	235 58 10	A	+	9 153,35	+ 3 635,68
BC	39,16	334 33 00	B	+	9 110,80	+ 3 606,94
CD	36,92	48 47 30	C	+	9 093,97	+ 3 642,31
DE	15,75	73 00 00	D	+	9 121,75	+ 3 666,64
EA	39,22	155 02 50	E	+	9 136,81	+ 3 671,24

Approved

Surveyor-General

Servitudes

- (i) The figure E a b d represents a Road Servitude. Vide diagram S.G. No. 1805/1960 and Deed of Transfer No. 12518/1969.
- (ii) The figure E d e represents a Road Servitude. Vide diagram S.G. No. 1809/1960 and Deed of Transfer No. 12560/1971.

Beacon Description

A,B,C,D,E - 15 mm iron pegs.

Components

- The figure A B C E represents Sub 10 of Lot 115 Westville. Vide diagram S.G. No. 1815/1960 and Deed of Transfer No. 15096/1971.
- The figure C D E represents Sub 12(of 8) of Lot 2657 Westville (Extension No.7) Vide diagram S.G. No. 2788/1976 and Deed of Transfer No. T. 12114/1976.

SCALE: 1 : 1 250

The figure A B C D E

represents 2 114 square metres

of land, being

LOT 2978 WESTVILLE

and comprises the properties 1 and 2 quoted above

situate in the Borough of Westville,

Administrative District and Province of Natal.

Compiled in September 1976

by me

Land Surveyor

This diagram relates to

No.

File No. /86

S.R. No.

Comp. FT-8B-24-A

Degree Sheet 59

Registrar of Deeds.

SYE Meter		RIGTINGS- HOEKE	L.G. No.
AB	28,26	301 00 00	Goedgekeur
BC	40,00	31 00 00	
CD	38,00	121 00 00	
DE	17,00	169 00 00	Landmeter- generaal.
EA	34,56	248 38 50	

BAKENS:
A,B,C,D,E 12mm ysterpen

Skaal 1:750

Die figuur ABCDE
stel voor 1614 vierkante meter grond, synde

ERF 13088 UITENHAGE en bestaan uit:

- 1) Die figuur AxyDE stel voor Erf 11679 Uitenhage Sien Alg. Plan TP 8843
- 2) Die figuur xBCy stel voor Erf 11678 Uitenhage Sien Alg. Plan TP 8843

geleë in die dorp Uitenhage Uitbreiding No. 45
in die Munisipaliteit en Administratiewe Distrik van
UITENHAGE
Provinsie Kaap die Goeie Hoop.

Saamgestel in Augustus 1976
deur my, Landmeter

Hierdie kaart is geheg aan
No.
gedateer

Registrateur van Aktes.

Lêer No.
M.S. No.
Komp. BO-7BB/W33 (6014)
Alg. Plan TP 8843 Vel 2

SIDES Metres		ANGLES OF DIRECTION	S.G. No.
AB	28,26	301 00 00	Approved
BC	40,00	31 00 00	
CD	38,00	121 00 00	
DE	17,00	169 00 00	Surveyor-General
EA	34,56	248 38 50	

BEACONS:
A,B,C,D,E 12mm iron peg

Scale 1:750

The figure ABCDE
represents 1 614 square metres of land, being

ERF 13088 UITENHAGE and comprises:

- (1) The figure AxyDE representing Erf 11679 Uitenhage Vide G. Plan T.P. 8843
- (2) The figure xBCy representing Erf 11678 Uitenhage Vide G. Plan T.P. 8843

situate in Uitenhage Township Extension No. 45
in the Municipality and Administrative District of UITENHAGE
Province of Cape of Good Hope

Compiled in August 1976
by me, Land Surveyor

This diagram is annexed to
No.
dated

Registrar of Deeds

File No.
S.R. No.
Comp. BO-7BB/W33 (6014)
G. Plan TP 8843 Sht. 2

SYE Meter	HOEKE	KOÖRDINATE		L.G. No.
		Y	X	
		Stelsel	Lo. 19°	
AB	A	Konstantes	0	Goedgekeur
BC			+ 3 700 000	
CD			+ 13 002,1	
DE			+ 16 422,8	
EF	H	94 00 50	+ 12 710,6	Landmeter-generaal
FG			+ 16 240,8	
GH			+ 12 254,9	
HJ			+ 17 415,8	
JK	J	273 58 20	+ 12 530,8	Landmeter-generaal
KA			+ 17 444,6	
	K	85 18 00	+ 12 614,8	Landmeter-generaal
			+ 16 966,8	
			+ 12 902,0	
			+ 17 038,1	

BESKRYWING VAN BAKENS:

- A Ysterstaander
 B,G Seksie spoorstaafhoekdraadpaal
 H 20mm ronde ysterpen onder hoop grond
 J 20mm ronde ysterpen langs ysterspoorstaafhoekdraadpaal
 K Swaar ysterstaanderhoekdraadpaal

KOMPONENTE:

- (1) Die figuur ABGHEJK stel Ged. 3 van die plaas Keersfontein No. 73 voor.
 Sien Kaart No. 526/76 Akte van Transport 1976-42-576
- (2) Die figuur BCDEF stel die Restant van die plaas Uitkyk No. 69 voor.
 Sien Kaart No. B.199/1831 Grondbrief Stel.Q. 9a-21

Die figuur A B C D E F G H J K
 stel voor 128,3931 hektaar grond, synde
 DIE PLAAS No. 1299
 en bevat (1) en (2) soos hierbo aangehaal
 geleë in Administratiewe Distrik
 PAARL Provinsie Kaap die Goeie Hoop

Saamgestel in Januarie 1976
 deur my,

Landmeter

Hierdie kaart is geheg aan

No.
gedateer

Registrateur van Aktes

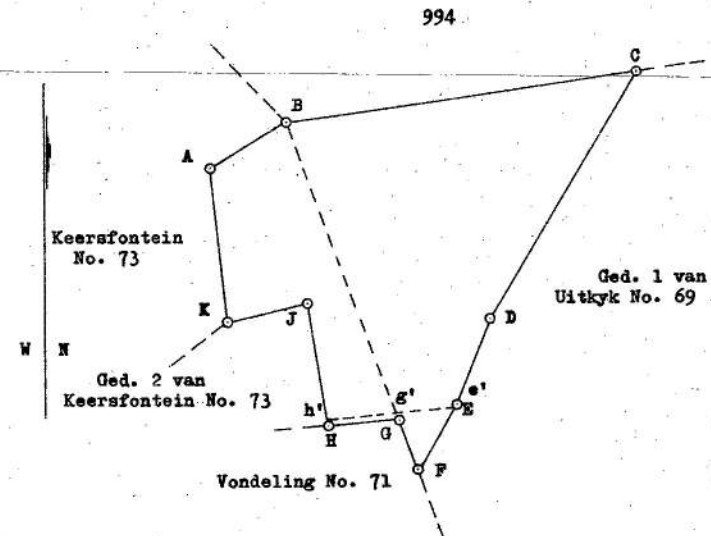
Lêer No.

M.S. No.

Komp. BH-6BC (3717)

BH-6BDA (3718)

L.G. No.
Goedgekeur
Landmeter-generaal



Die gebroke lyn h'g'e' stel die middel van 'n serwituutpad
 6,30 meter wyd voor.
 Sien Kaart No. 4034/66 Transportakte 1967-68-10293.

Skaal 1:20 000

Saamgestel in Januarie 1976
 deur my,

Landmeter

SIDES Metres		ANGLES	CO-ORDINATES Y System Lo 19° X		S.G. No.
		Constant	+	0	3700 000,00
AB	343,7	A 112 44 20	A	+13 002,1	+ 16 422,8
BC	1 375,3		B	+12 710,6	+ 16 240,8
CD	1 125,9				
DE	340,0				
EF	272,0				
FG	205,7				
GH	277,4		G	+12 254,9	+ 17 415,8
HJ	485,2	H 94 00 50	H	+12 530,8	+ 17 444,6
JK	295,9	J 273 58 20	J	+12 614,8	+ 16 966,8
KA	623,4	K 85 18 00	K	+12 902,0	+ 17 038,1

DESCRIPTION OF BEACONS:

A Iron standard
 B,G Section rail corner fence post
 H 20mm round iron peg under a heap of ground
 J 20mm round iron peg alongside iron rail corner fence post
 K Heavy iron standard corner fence post

COMPONENTS:

(1) The figure ABGHJK represents Ptn. 3 of the farm Keersfontein No. 73
 Vide Dgm. No. 526/1976 D/T 1976-42-576

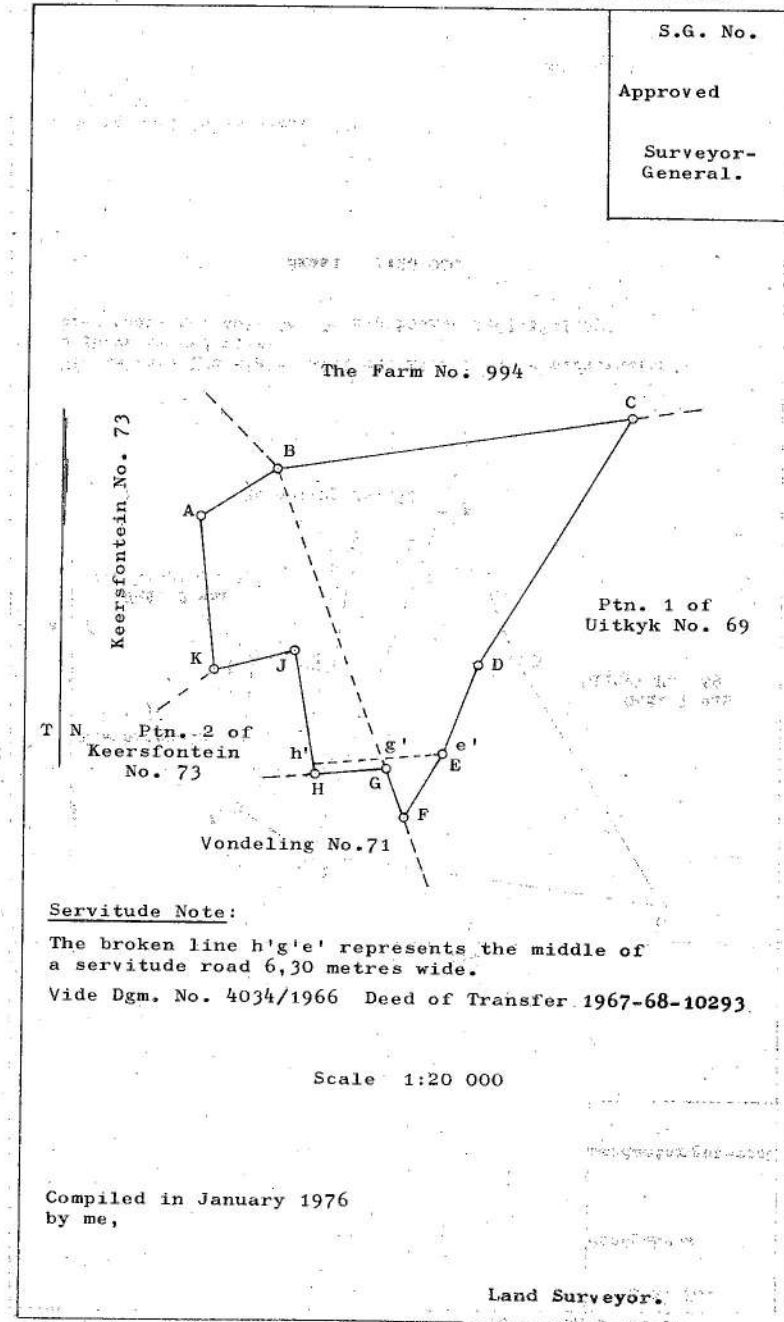
(2) The figure BCDEF represents the Remainder of the farm Uitkyk No. 69
 Vide Dgm. No. B.199/1831 D/G Stel.Q. 9a-21

The figure ABCDEFGHJK represents 128,3931 hectares of land, being THE FARM No. 1299 and comprises (1) and (2) as shown above

situate in the Administrative District of PAARL Province of Cape of Good Hope.

Compiled in January 1976 by me, _____ Land Surveyor

This diagram is annexed to	The original diagrams are as quoted above	File No. S.R. No. Comp.BH-6BC (3717) BH-6BDA(3718)
No. dated i.f.o.		
Registrar of Deeds		



SIDES METRES	ANGLES		CO-ORDINATES				S.G. No.
			Y SYSTEM	Lo	29°	X	
		Constants	±	0,00	+3	300 000,00	
AB.	612,02	A	89 26 00	A	- 50 719,48	+ 11 568,28	Approved
BC	154,84	B	131 07 30	B	- 51 249,96	+ 11 873,51	
CD	752,34	C	107 46 00	C	- 51 280,06	+ 12 025,40	
DE	2 308,88	D	269 26 30	D	- 50 621,89	+ 12 389,86	Surveyor-General
EF	1 509,55	E	77 24 20				
FG	2 149,06	F	111 51 40				
GH	937,40	G	188 30 20	G	- 48 956,42	+ 13 140,80	
HJ	527,11	H	72 41 08	H	- 48 281,06	+ 12 490,71	
JK	192,30	J	83 47 10	J	- 48 743,07	+ 12 236,96	
KL	476,02	K	306 23 00	K	- 48 816,06	+ 12 414,54	
LM	378,33	L	156 14 30	L	- 49 062,40	+ 12 006,73	
MN	464,69	M	101 30 20	M	- 49 371,59	+ 11 788,71	
NP	672,77	N	217 41 30	N	- 49 709,74	+ 12 107,44	
PA	694,06	P	246 15 00	P	- 50 372,28	+ 12 173,24	
		6 ▲	- 48 171,37		+ 12 970,81		
		46 ▲	- 44 799,36		+ 3 147,86		

Beacon Description

A,B,C,G,H,J,K,L,M,N,P - 20 mm iron pegs and cairns

D - Wagon axle and cairn, with witness marks at 5 m to C and E

The figure A B C D E F G H J K L M N P

represents 545,8636 hectares of land being

THE FARM DUDSEY NO. 17503

and comprises :-

1) The figure ABCDGHJKLMNP representing Remainder of the farm Nunmilk No.17006. Vide diagram S.G. No. 3370/1971 and Certificate of Consolidated Title No. 417/1973.

2) The figure DEFG representing Lot PF 314 No. 7803. Vide diagram Gr. Vol. 285 Fol. 11 and Deed of Grant No. 7803.

situate in the Administrative District and Province of Natal.

Compiled in October 1972 by me

Land Surveyor

This diagram is annexed to

No.

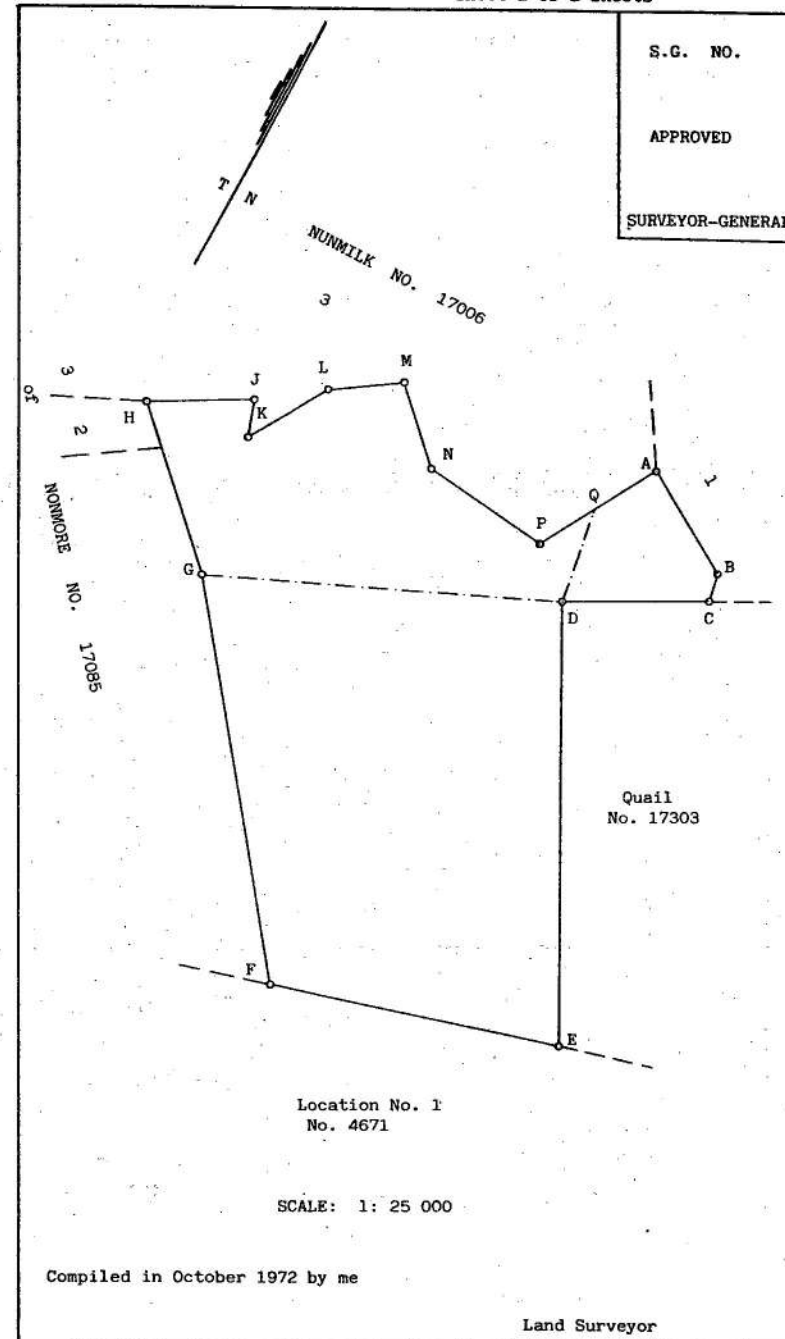
Registrar of Deeds

File

S.R. No.

Compilation FS-7D, FS-8C

Degree Sheet 57



SYE	Meter	KONSTANTE	Y	KOÖRDINATE	X	L.G. No.
				Stelsel: Lo. 29°		
AB	325,38	A 63 41 13	A + 60 000,00	+ 5120000,00		
BC	710,73	B 174 57 40	B + 4 571,27	+ 5 243,53	Goedgekeur	
CD	263,28	C 56 30 10	C + 3 266,91	+ 5 358,59		
DE	450,94	D 324 29 30	D + 3 626,74	+ 5 667,32		
EF	647,22	E 101 45 20	E + 3 852,99	+ 5 801,96	nms.	
FC	420,14	F 93 30 20			Landmeter-generaal	
GH	186,34	G 209 58 35				
HJ	98,39	H 95 43 50	H + 3 878,97	+ 6 679,08		
JK	275,97	J 156 49 30	J + 3 950,00	+ 6 611,01		
KL	554,56	K 273 03 00	K + 4 058,03	+ 6 357,05		
LM	434,35	L 53 49 40	L + 4 556,07	+ 6 600,97		
MA	934,18	M 195 39 57	M + 4 480,03	+ 6 173,24		

BAKENBESKRYWINGS

A,B ... Halwe ysterpaal wat + 100mm. uitsteek.
 C ... Swaar ysterhoekdraadpaal.
 D,M ... Kliphoeckdraadpaal.
 H ... Halwe ysterpaal onder klipstapel.
 J,K,L ... Halwe ysterpaal in grip.

Komponente

- (1) Die figuur A B C M stel voor Onderverdeling 4(van 3) van die plaas PIELANSHOEK No. 944.
 Sien kaart LG.No. 3407/1977 ; Transport No.
 (2) Die figuur D E F G H J K L M stel voor die Restant van die plaas NARWANDA No. 351.
 Sien kaart LG.No. F.913/1924 ; Transport No. 4472/1924.

SERWITUUTNOTA

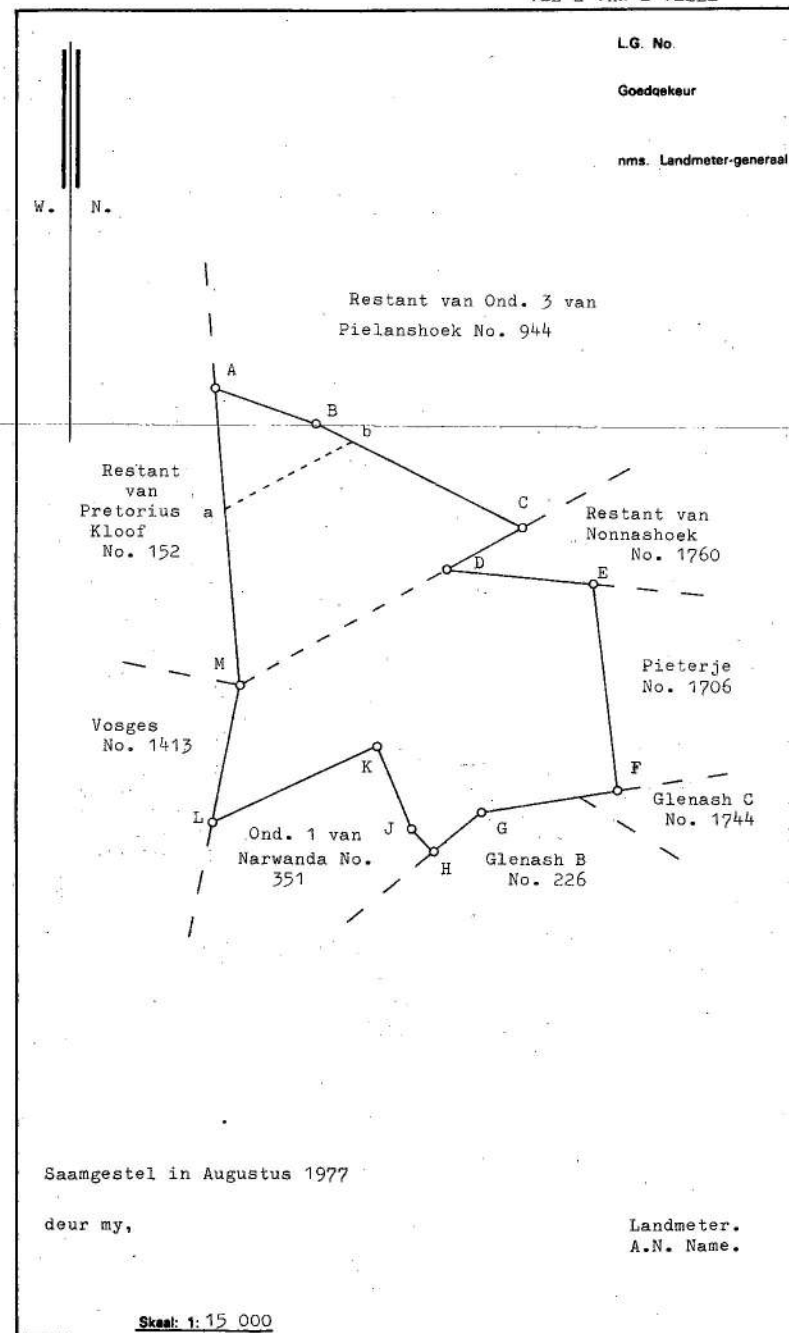
Die lyn a b stel voor die middellyn van 'n Elektriese Kraglyn Serwituut.
 Sien kaart LG.No. 1234/1959 ; Akte van Serwituut No. 77^s/1960.

Die figuur A B C D E F G H J K L M

stel voor 111,5327 hektaar grond synde,
 die plaas NARWANDA No. 1805
 en bestaan uit (1) en (2) soos hierbo aangehaal.
 geleë in Administratiewe Distrik Bethlehem Provinsie Oranje-Vrystaat
 Saamgestel in Augustus 1977
 deur my, Landmeter.

A.N. Name.

Hierdie kaart is geheg aan	Die oorspronklike kaart is	Leër No.
No.	soos hierbo aangehaal.	M.S. No.
gedesteer	deur	Komp. GR-1D-22/D
t.g.v.	Transport/Grondreël	
	Nie	
Registateur van Aktes.		Wat/Act 70/1970 No. 5898 d.d. 1977-08-15



SIDES Metres	ANGLES in Degrees	Y	CO-ORDINATES System: Lo. 29°	X	S.G. No.
AB	325,38	A 63 41 13	+ 60 000,00	+3120 000,00	Approved for Surveyor-General
BC	710,73	B 174 57 40	+ 4 571,27	+ 5 243,53	
CD	263,28	C 56 30 10	+ 3 266,91	+ 5 358,59	
DE	450,94	D 324 29 30	+ 3 626,74	+ 5 667,32	
EF	647,22	E 101 45 20	+ 3 852,99	+ 5 801,96	
FG	420,14	F 93 30 20			
GH	186,34	G 209 58 35			
HJ	98,39	H 95 43 50	+ 3 878,97	+ 6 679,08	
JK	275,97	J 156 49 30	+ 3 950,00	+ 6 611,01	
KL	554,56	K 273 03 00	+ 4 058,03	+ 6 357,05	
LM	434,35	L 53 49 40	+ 4 556,07	+ 6 600,97	
MA	934,18	M 195 39 57	+ 4 480,03	+ 6 173,24	

DESCRIPTION OF BEACONS

- A,B ... Half iron standard projecting + 100mm.
 C ... Heavy iron corner fence post.
 D,M ... Stone corner fence post.
 H ... Half iron standard under cairn.
 J,K,L ... Half iron standard in trench.

Components

- (1) The figure A B C M represents Subdivision 4(of 3) of the farm PIELANSHOEK No. 944.
 See diagram SG. No. 3407/1977 ; Transfer No.
 (2) The figure D E F G H J K L M represents the Remainder of the farm NARWANDA No. 351.
 See diagram SG. No. F.913/1924 ; Transfer No. 4472/1924.

SERVITUDE NOTE

The line a b represents the centre line of an Electric Power Line Servitude.
 See diagram SG.No. 1234/1959 ; Deed of Servitude No. 77^S/1960.

The figure A B C D E F G H J K L M

represents 111,5327 hectares

of land being

the farm NARWANDA No. 1805

and comprises (1) and (2) as quoted above

situate in Administrative District Bethlehem

Province of Orange Free State

Compiled in August 1977

by me,

Land Surveyor.
 A.N. Name.

This diagram is annexed to

The original diagram is as quoted above.

File No.

No.

Annexed to

S.R. No.

dated

Transfer/Grant

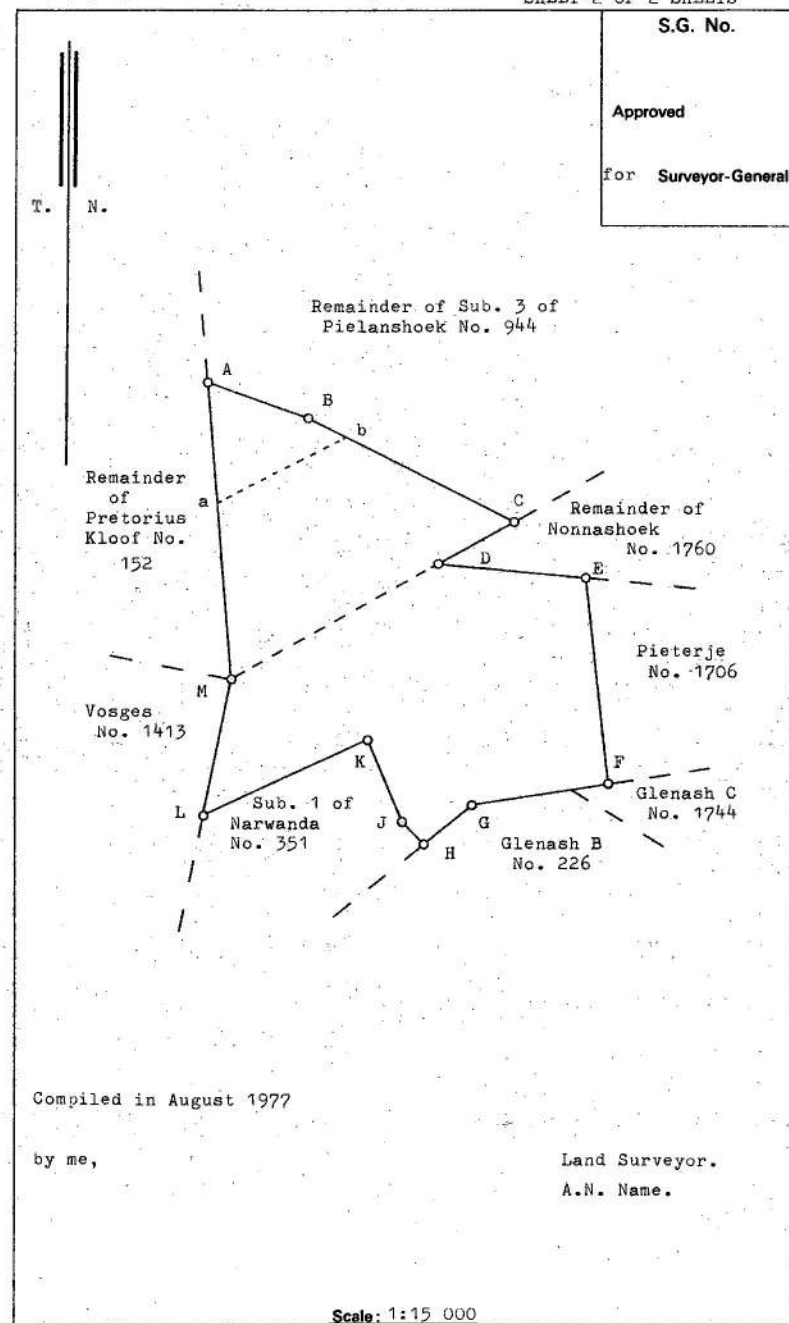
Comp. GR-1D-22/D

I.f.o.

Registrar of Deeds

Annexed to

Wet/Act
 5898 70/1070
 No. 1977-08-15
 d.d.



SYE Meter		RIOTINGS- HOEKE	KOORDINATE Y Stelsel Lo. 27° X		L.G. No.
AB	6 712,0	Konstantes	± 0	+2 800 000	GOEDGEKEUR
BC	2 569,0	236 22 46	A + 65 342,3	+ 79 880,0	
CD	2 001,2	335 00 21	B + 59 753,1	+ 76 163,6	
DE	6 615,4	9 49 31	C + 58 667,6	+ 78 492,0	
EA	4 813,5	51 46 20	D + 59 009,1	+ 80 463,9	
		166 20 40	E + 64 205,9	+ 84 557,4	nms. LANDMETER- GENERAAL
	(73)	Rodepan	Δ + 65 746,5	+ 85 959,8	
	(28)	Kraaikoppie	Δ + 54 493,0	+ 75 651,0	

BESKRYWING VAN BAKENS

A swaar ysterpaal
B,C,D 20mm ysterpen en klipstapel
E ysterpaal en klipstapel

Skaal 1:100 000

Die figuur A B C D E
stel voor 2 934,7625 hektaar synde

MINERALEGEBIED No. 1
op Gedeelte 3 van die plaas ROODEPAN No. 29 - IP
Provinsie Transvaal
Vervaardig kragtens Artikel 39 van Wet 9 van 1927 in April 1977 deur my
vir die doel om Mineraleregte te registreer

Landmeter

Hierdie kaart is geheg aan No. ged. t.g.v. Registrateur van Aktes	Die oorspronklike kaart is L.G. No. _____	Leer M.S. Komp. IPNH - 331
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SIDES Metres		ANGLES OF DIRECTION	CO-ORDINATES Y System Lo 27° X		S.G. No.
AB	6 712,0	Constants	± 0	+2 800 000	APPROVED
BC	2 569,0	236 22 46	A + 65 342,3	+ 79 880,0	
CD	2 001,2	335 00 21	B + 59 753,1	+ 76 163,6	
DE	6 615,4	9 49 31	C + 58 667,6	+ 78 492,0	
EA	4 813,5	51 46 20	D + 59 009,1	+ 80 463,9	
		166 20 40	E + 64 205,9	+ 84 557,4	for SURVEYOR- GENERAL
	(73)	Rodepan	Δ + 65 746,5	+ 85 959,8	
	(28)	Kraaikoppie	Δ + 54 493,0	+ 75 651,0	

DESCRIPTION OF BEACONS

A heavy iron standard
B,C,D 20mm iron peg and cairn
E iron standard and cairn

Scale 1:100 000

The figure A B C D E
represents 2 934,7625 hectares being

MINERAL AREA No. 1
on Portion 3 of the farm ROODEPAN No. 29 - IP
Province of Transvaal
Framed in terms of Section 39 of Act 9 of 1927 in April 1977 by me for the
purpose of registering a Mineral right

Land Surveyor

This diagram is annexed to No. dated i.f.o. Registrar of Deeds	The original diagram is S.G. No. _____	File S.R. Comp. IPNH - 331
--	---	----------------------------------

SIE Meter		RIJTINGS-HOEKE	KOORDINATE Stelsel Lo. 27°		L.G. No.
			Y	X	
AB	643,0	Konstantes	± 0	+2 800 000	GOEDGEKEUR
BC	4 739,2	236 22 46	A + 65 342,3	+ 79 880,0	
CD	707,0	345 52 40	B + 64 806,8	+ 79 524,0	
DA	4 813,5	51 46 20	C + 63 650,5	+ 84 120,0	
	(73)	166 20 40	D + 64 205,9	+ 84 557,4	nms. LANDMETER- GENERAAL
	(28)	Roo-depan	Δ + 65 746,5	+ 85 959,8	
		Kraaikoppe	Δ + 54 493,0	+ 75 651,0	

BESKRYWING VAN BAKENS

A 12mm ysterpen onder klipstapel
 B ysterhoekdraadpaal in klipstapel met 3 aanduidingspenne
 C,D ysterpaal onder klipstapel

Skaal 1:75 000

Die figuur A B C D
 stel voor 298,3845 hektaar synde
MINERAALGEBIED No. 2 (n gedeelte van Mineraalgebied No. 1)
 op die plaas ROODEPAN No. 29 - IP
 Provinsie Transvaal
 Opgemeeit in Augustus-September 1976 deur my

Vervaardig vir die doel om
 mineraleregte te registreer

LANDMETER

Hierdie kaart is geheg aan No. ged. t.g.v. Registrateur van Aktes	Die oorspronklike kaart is L.G. No. 201/77 S.M.R. No. 7132/1960	Lêer M.S. Komp. IP NH - 331
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SIDES Metres		ANGLES OF DIRECTION	CO-ORDINATES System Lo. 27°		S.G. No.
			Y	X	
AB	643,0	Constants	± 0	+2 800 000	APPROVED
BC	4 739,2	236 22 46	A + 65 342,3	+ 79 880,0	
CD	707,0	345 52 40	B + 64 806,8	+ 79 524,0	
DA	4 813,5	51 46 20	C + 63 650,5	+ 84 120,0	
	(73)	166 20 40	D + 64 205,9	+ 84 557,4	for SURVEYOR- GENERAL
	(28)	Roo-depan	Δ + 65 746,5	+ 85 959,8	
		Kraaikoppe	Δ + 54 493,0	+ 75 651,0	

DESCRIPTION OF BEACONS

A 12mm iron peg under cairn
 B iron corner fence post in cairn with 3 indicatory beacons
 C,D iron standard under cairn

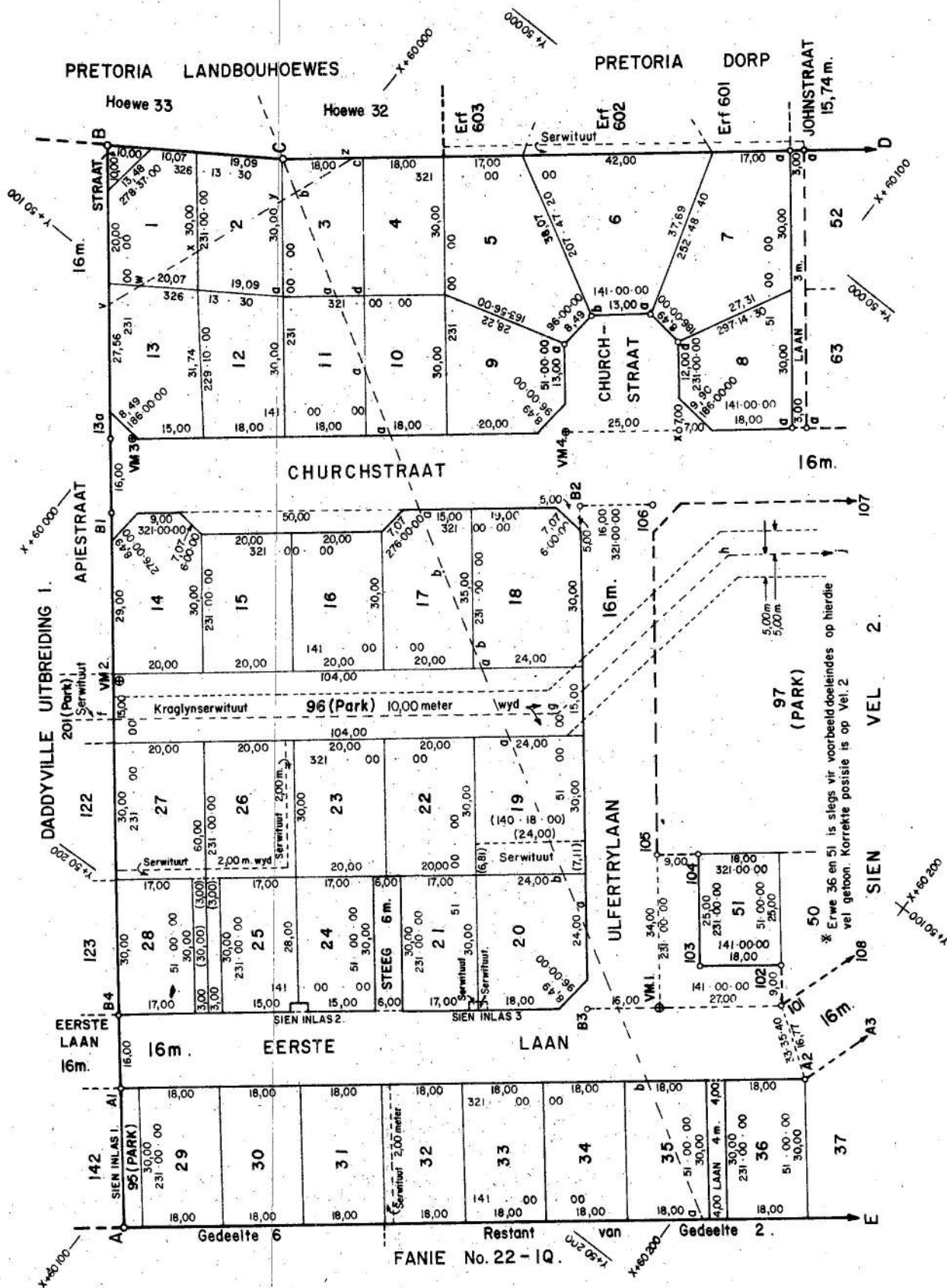
Scale 1:75 000

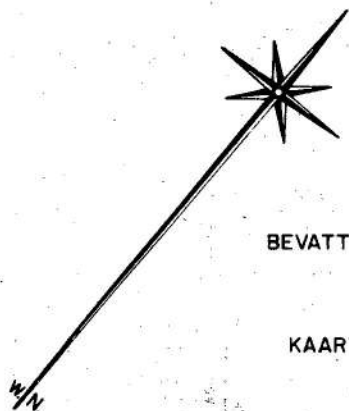
The figure A B C D
 represents 298,3845 hectares being
MINERAL AREA No. 2 (a portion of Mineral Area No. 1)
 on the farm ROODEPAN No. 29 - IP
 Province of Transvaal
 Surveyed in August-September 1976 by me

Framed for the purpose of
 registering a Mineral right

Land Surveyor

This diagram is annexed to No. dated i.f.o. Registrar of Deeds	The original diagram is S.G.No. 201/77 C.M.R. No. 7132/1960	File S.R. Comp. IP NH - 331
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ALGEMENE PLAN

(BESTAANDE UIT 3 VELLE)
VAN DIE DORP

CONTROVERSY PARK

BEVATTENDE 94 ERWE GENOMMER 1 TOT 94, 5 PARKE GENOMMER 95 TOT 99 EN
DIE STRATE, GELEË OP GEDEELTE 223 VAN DIE PLAAS

BLACKSAM No.123-IQ

KAART : LG. No. A 21345/83.

AKTE VAN TRANSPORT No.T234/1983.

PROVINSIE TRANSVAAL

SKAAL 1: 750

Opgemete in Januarie 1985
deur my (ons)

BAKENBESKRYWINGS

- A, B.....Ysterpaal en klipstapel
C, E.....12mm ysterpen
2a, 15a.....12mm gat in rots
VM1 - VM4.....12mm geelkoperpen in beton, ondergrond, in standaard
ysterkassie (of met plastiese/beton/ staalbuis)
Alle ander bakens.....12mm x 450mm ysterpen

SERWITUUTNOTAS

- 1) Erwe 26 en 27 is onderhewig aan 'n serwituut vir munisipale doeleindes, 2,00 meter wyd, soos aangetoon
- 2) Erf 32 is onderhewig aan 'n stormwater serwituut 2,00 meter wyd, soos aangetoon
- 3) Erf 19 is onderhewig aan 'n serwituut vir munisipale doeleindes soos aangetoon
- 4) Erwe 20 en 21 is onderhewig aan 'n serwituut vir transformator doeleindes soos aangetoon
- 5) Die lyn fghjkm stel voor die middellyn van 'n elektriese kraglynserwituut met ondergrondse kables, 10,00 meter wyd, volgens kaart LG No A123/75
Akte van Serwituut No K123/1975^s en affekteer Erwe 18, 76, 96 (Park) en 97 (Park)

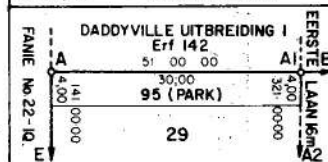
NOTAS

- 1) Tensy anders aangetoon is alle afstompingsafstande 6,00 meter
- 2) Tensy anders aangetoon is alle versekeringsmerke 1,00 meter vanaf die naaste erfbaken, op lyn na die blokhok

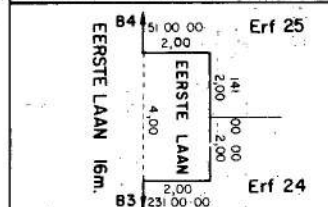
LW: Die oppervlakte van Erf 95(Park) is vergroot vir voorbeeld doeleindes.

(S. Line.) B Plumbob
Landmeter Landmeter

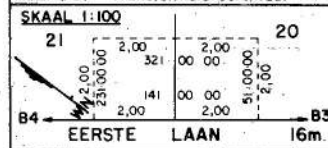
INLAS 1. SKAAL 1: 500



INLAS 2. SKAAL 1: 125



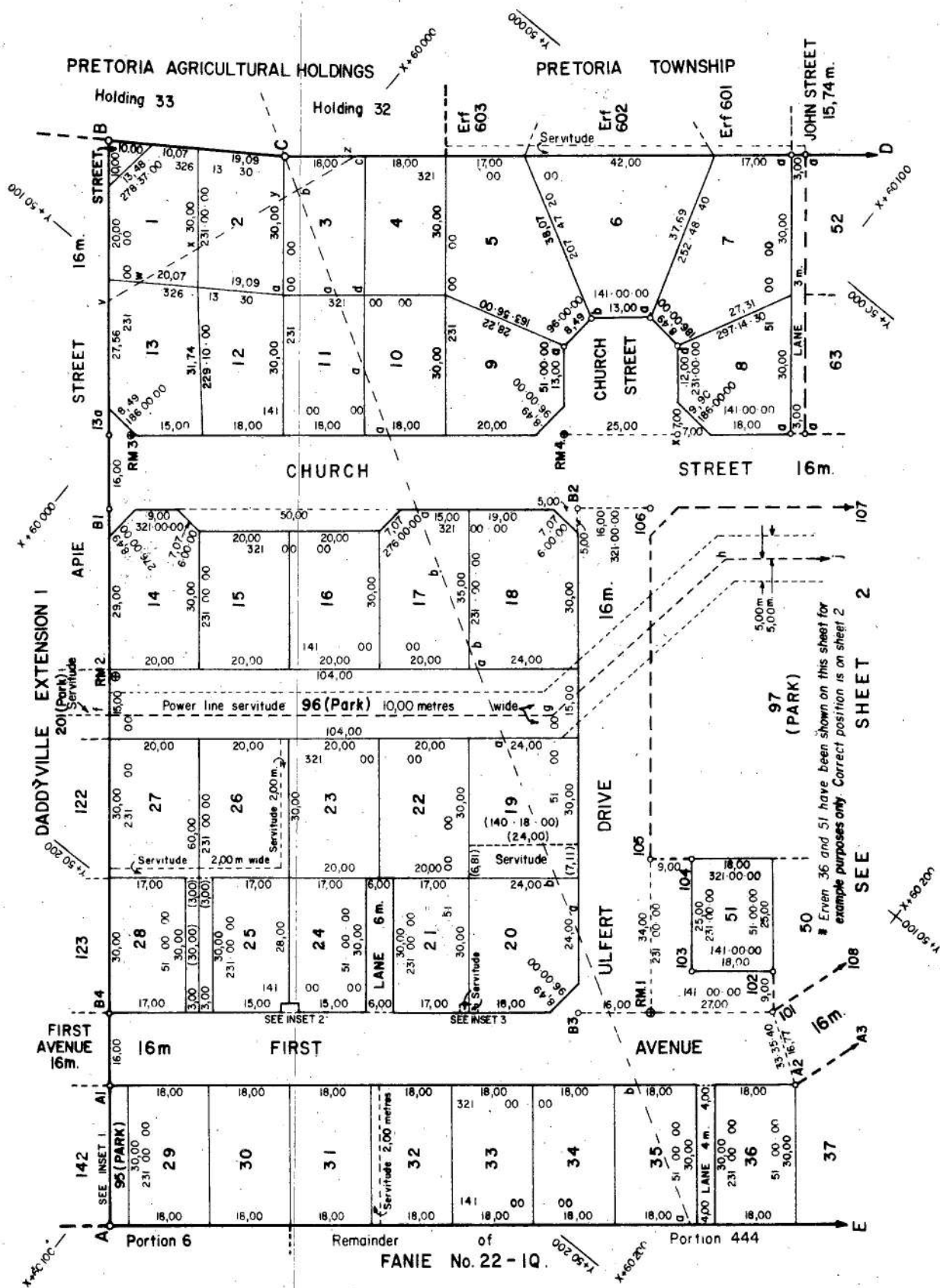
INLAS 3. Transformatorserwituut

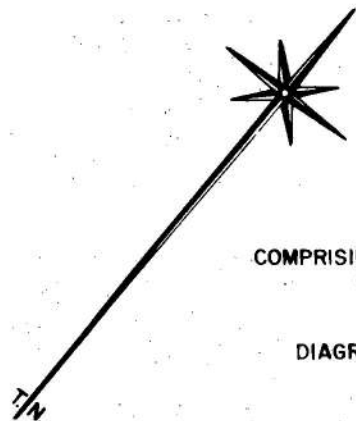


HOOFFIGUURDATA			LG. No. A	
Sye	meter	Rigtingshoeke	VEL I.	
AB	235,56	231 00 00	Goedgekeur	
BC	39,16	326 13 30		
CD	390,00	321 00 00		
DE	231,99	51 00 00		
EA	429,00	141 00 00		
K O O R D I N A T E			nms. Landmeter - generaal (Laat spasie vir datum van goedkeuring.)	
STELSEL : Lo. 29° meter Konstante : Y ± 0 X ± 2 900 000			O P P E R V L A K T E S	
H O O F F I G U U R			Erf No.	Vierkante meter
A	+50 261,81	+60 106,91	1	550
B	+50 078,74	+59 958,67	2	570
C	+50 056,97	+59 991,22	3 - 4	540
D	+49 811,54	+60 294,31	5	889
E	+49 991,83	+60 440,31	6	962
BLOKHOOKE			7	871
A 1	+50 238,49	+60 088,03	8	588
A 2	+50 142,83	+60 206,16	9	619
B 1	+50 140,57	+60 008,73	10 - 11	540
B 2	+50 075,12	+60 089,55	12	571
B 3	+50 160,61	+60 158,78	13	651
B 4	+50 226,06	+60 077,96	14	670
6a	+50 033,19	+60 076,19	15 - 16	600
6b	+50 041,37	+60 066,09		
7a	+49 986,49	+60 078,26		
8a	+50 033,11	+60 116,02		
8d	+50 034,08	+60 084,64		
8x	+50 048,84	+60 096,60		
9a	+50 049,81	+60 065,20		
VM 4	+50 064,58	+60 077,16		
13a	+50 128,14	+59 998,67		
102	+50 126,55	+60 186,53		
103	+50 137,88	+60 172,54		
104	+50 118,45	+60 156,81		
VERSEKERINGSMERKE			VEL	ERWE
VM 1	+50 150,54	+60 171,21	1	1 - 36, 51, 95(Park), 96(Park)
VM 2	+50 167,98	+60 032,75	2	37 - 50, 52 - 63, 97(Park)
VM 3	+50 124,99	+60 002,56	3	64 - 94, 98(Park), 99(Park)
VM 4	+50 064,58	+60 077,16		(Erfnummers kan ook in die figuur van die sleutelplan aangetoon word.)
TRIGONOMETRIESEBAKENS			LÊER No.	
672	Primrose		MEETSTUKKE No.	
Δ	+85 245,73	- 2 635,35	KOMPILASIE : IQSS-243	
999 Δ	+53 001,00	+60 000,00	AKTES : (PTA of JHB.)	
(Alle + tekens is opsioneel maar - tekens verpligend)				

SLEUTELPLAN







GENERAL PLAN

(CONSISTING OF 3 SHEETS)
OF THE TOWNSHIP OF

CONTROVERSY PARK

COMPRISING 94 ERVEN NUMBERED 1 TO 94, 5 PARKS NUMBERED 95 TO 99 AND THE
STREETS, SITUATED ON PORTION 223 OF THE FARM
BLACKSAM No.123-IQ

DIAGRAM: SG. No. A 21345/83.

DEED OF TRANSFER No. T234/1983.

PROVINCE OF TRANSVAAL

SCALE 1:750

Surveyed in June 1976 and May 1984

by me(us)

(S Line) B Plumbob
Land Surveyor Land Surveyor.

DESCRIPTION OF BEACONS.

- A, B Iron standard and cairn.
C, E 12mm Iron peg.
2a, 15a 12mm hole in rock.
RM1 - RM4 12mm brass peg in concrete, underground, in stand-
iron box. (or: with plastic /concrete /steel sleeve.)
All other beacons 12 x 450mm Iron peg.

Servitude notes.

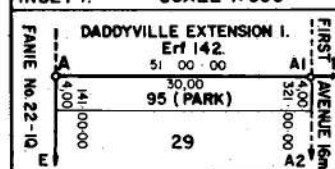
- 1) Erven 26 and 27 are subject to a servitude for municipal purposes, 2,00 metres wide, as indicated.
- 2) Erf 32 is subject to a stormwater servitude 2,00 metres wide, as indicated.
- 3) Erf 19 is subject to a servitude for municipal purposes, as indicated.
- 4) Erven 20 and 21 are subject to a servitude for transformer purposes as indicated.
- 5) The line fghjkm represents the centre line of a electric power line servitude with underground cables, 10,00 metres wide, vide diagram SG No A 123/75 Deed of Servitude No K 321/1975⁵ and affects Erven 18, 76, 96(Park) and 97(Park)

Notes.

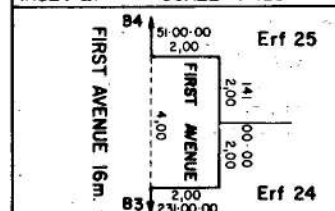
- 1) All splay distances are 6,00 metres unless otherwise indicated
- 2) All reference marks are 1,00 metre from the nearest erf beacon on line to block corner, unless otherwise indicated.

NB: The area of Erf 95(Park) has been enlarged for example purposes.

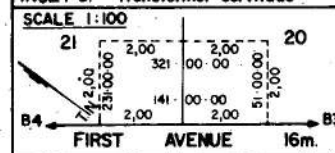
INSET 1. SCALE 1:500



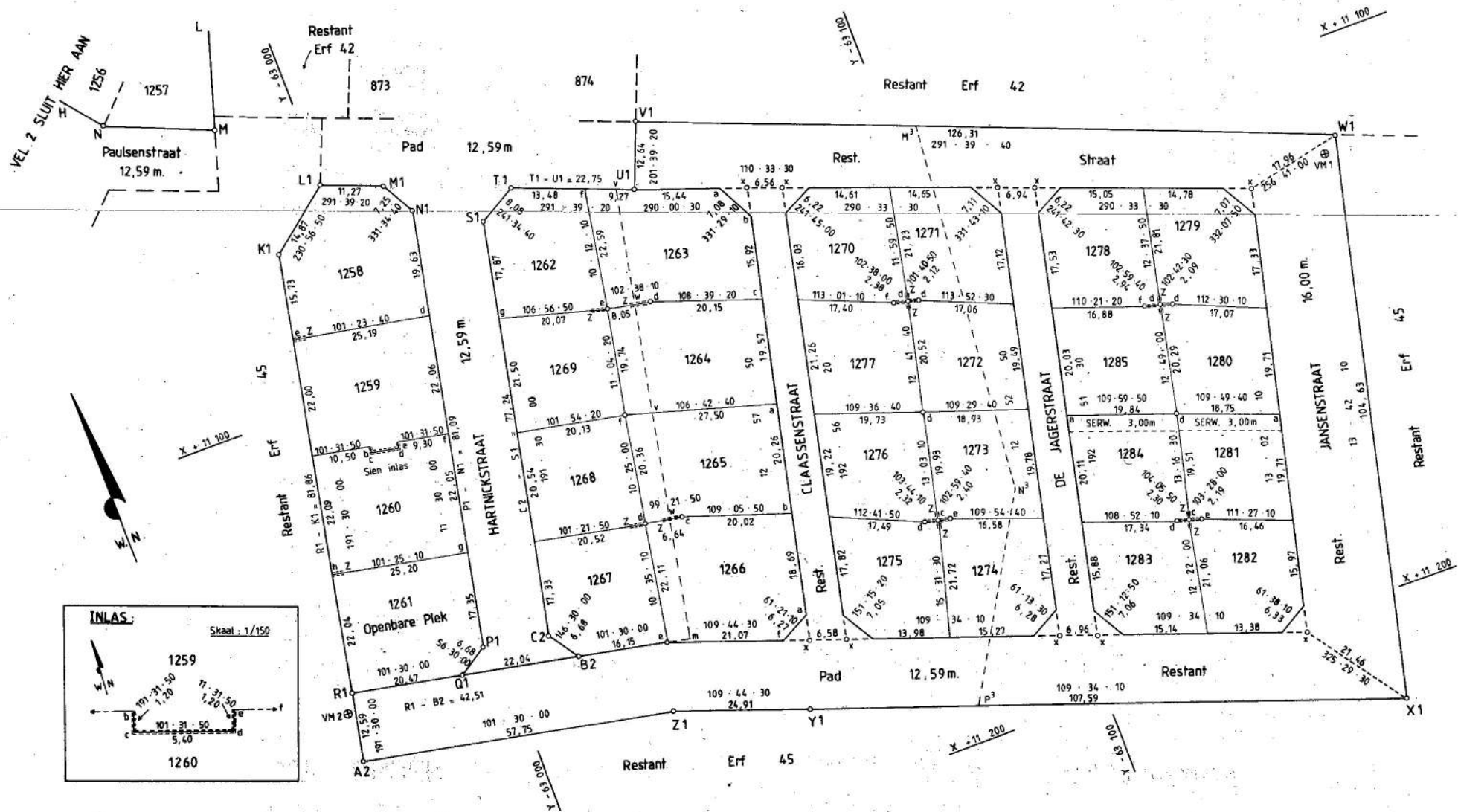
INSET 2. SCALE 1:125



INSET 3. Transformer servitude



MAIN FIGURE DATA			SG. No. A	
Sides	metres	Angles of Direction	SHEET 1.	
AB	235,56	231° 00' 00"	Approved for Surveyor-General (Leave space for date of approval.)	
BC	39,16	326° 13' 30"		
CD	390,00	321° 00' 00"		
DE	231,99	51° 00' 00"		
EA	429,00	141° 00' 00"		
C O - ORDINATES			A R E A S	
SYSTEM: Lo 29° metres Constants: Y± 0 X± 2 900 000			Erf No	Square metres
MAIN FIGURE			Erf No	Square metres
A	+ 50 261,81	+ 60 106,91	1	550
B	+ 50 078,74	+ 59 958,67	2	570
C	+ 50 056,97	+ 59 991,22	3 - 4	540
D	+ 49 811,54	+ 60 294,31	5	889
E	+ 49 991,83	+ 60 440,31	6	962
BLOCK CORNERS			7	871
A 1	+ 50 238,49	+ 60 088,03	8	588
A 2	+ 50 142,83	+ 60 206,16	9	619
B 1	+ 50 140,57	+ 60 008,73	10 - 11	540
B 2	+ 50 075,12	+ 60 089,55	12	571
B 3	+ 50 160,61	+ 60 158,78	13	651
B 4	+ 50 226,06	+ 60 077,96	14	670
6a	+ 50 033,19	+ 60 076,19	15 - 16	600
6b	+ 50 041,37	+ 60 066,09	17	687
7a	+ 49 986,49	+ 60 078,26	18	827
8a	+ 50 033,11	+ 60 116,02	19	720
8d	+ 50 034,08	+ 60 084,64	20	702
8x	+ 50 048,84	+ 60 096,60	21	510
9a	+ 50 049,81	+ 60 065,20	22 - 23	600
RM 4	+ 50 064,58	+ 60 077,16	24 - 25	506
13a	+ 50 128,14	+ 59 998,67	26 - 27	690
102	+ 50 126,55	+ 60 186,53	28	510
103	+ 50 137,88	+ 60 172,54	29 - 36	540
104	+ 50 118,45	+ 60 156,81	51	450
REFERENCE MARKS			95(PARK)	1,0120 hectares
RM 1	+ 50 150,54	+ 60 171,21	96(Park)	1560
RM 2	+ 50 167,98	+ 60 032,75	KEY PLAN Not to scale. 	
RM 3	+ 50 124,99	+ 60 002,56		
RM 4	+ 50 064,58	+ 60 077,16		
TRIGONOMETRICAL BEACONS			SHEET ERVEN	
672 Primrose			1	1 - 36, 51, 95(Park), 96(Park)
Δ + 85 245,73	- 2 635,35		2	37 - 50, 52 - 63, 97(Park)
999 Δ + 53 001,00	+ 60 000,00		3	64 - 94, 98(Park), 99(Park) (Erf numbers can also be indicated in the figure of the key plan)
(All + signs are optional but - sign is compulsory.)			FILE No.	
			SURVEY RECORDS No. 2 478 / 84	
			COMPILATION: IQSS-243	
			IQ 7C-15 / B4	
			DEEDS: (PTA or JHB)	



ALGEMENE PLAN NO. 15268 van ONDERVERDELINGS van

1. Figuur HJKLMN stel voor Erf 866 Calitzdorp
sien kaart No. 7601/67 geheg aan T/A 1968-18-920.
2. Figuur K1L1M1N1P1Q1R1 stel voor Erf 875 Calitzdorp
sien kaart No. 7610/67 geheg aan T/A 1968-18-920.
3. Figuur S1T1U1V1W1X1Y1Z1A2R1B2C2 stel voor Erf 1185
Calitzdorp in Calitzdorp Dorpsuitbreiding No. 3
sien kaart No. 2089/85 geheg aan T/A

geleë in die

MUNISIPALITEIT EN ADMINISTRATIEWE DISTRIK VAN
CALITZDORP. PROVINSIE KAAP DIE GOEIE HOOP.

OPGEMEET IN JUNIE - AUGUSTUS 1986

deur my A. N. OTHER

LANDMETER.

SKAAL 1:500

BESKRYWING VAN BAKENS:

1252b, 1254a, 1255b, 1258d, 1258e, 1260f, 1260g } Houtdraadpaal.
1262e, 1262f, 1262g, 1268d, 1268f, 1273d, 1281d }

1260c, 1260d Snypunt van middel van mure.

W1, X1, Y1, Z1, A2 12mm ronde ysterpen en klipstapel.

RM1 - RM4 12mm ronde ysterpen in beton.

Alle ander bakens is 12mm ronde ysterpenne.

SERWITUUT NOTAS:

1. Erwe 1281 en 1284 is onderhewig aan 'n rioolserwituut
3,00 meter wyd soos aangetoon.
2. Die lyn M³N³P³ stel die middellyn van 'n serwituut
pyplyn, 6,00 meter wyd, voor.
Sien kaart No. 1728/1964 S/A K.68/66⁵.

NOTAS: 1. Tensy anders vermeld, is alle afstompings
4,72 meter.

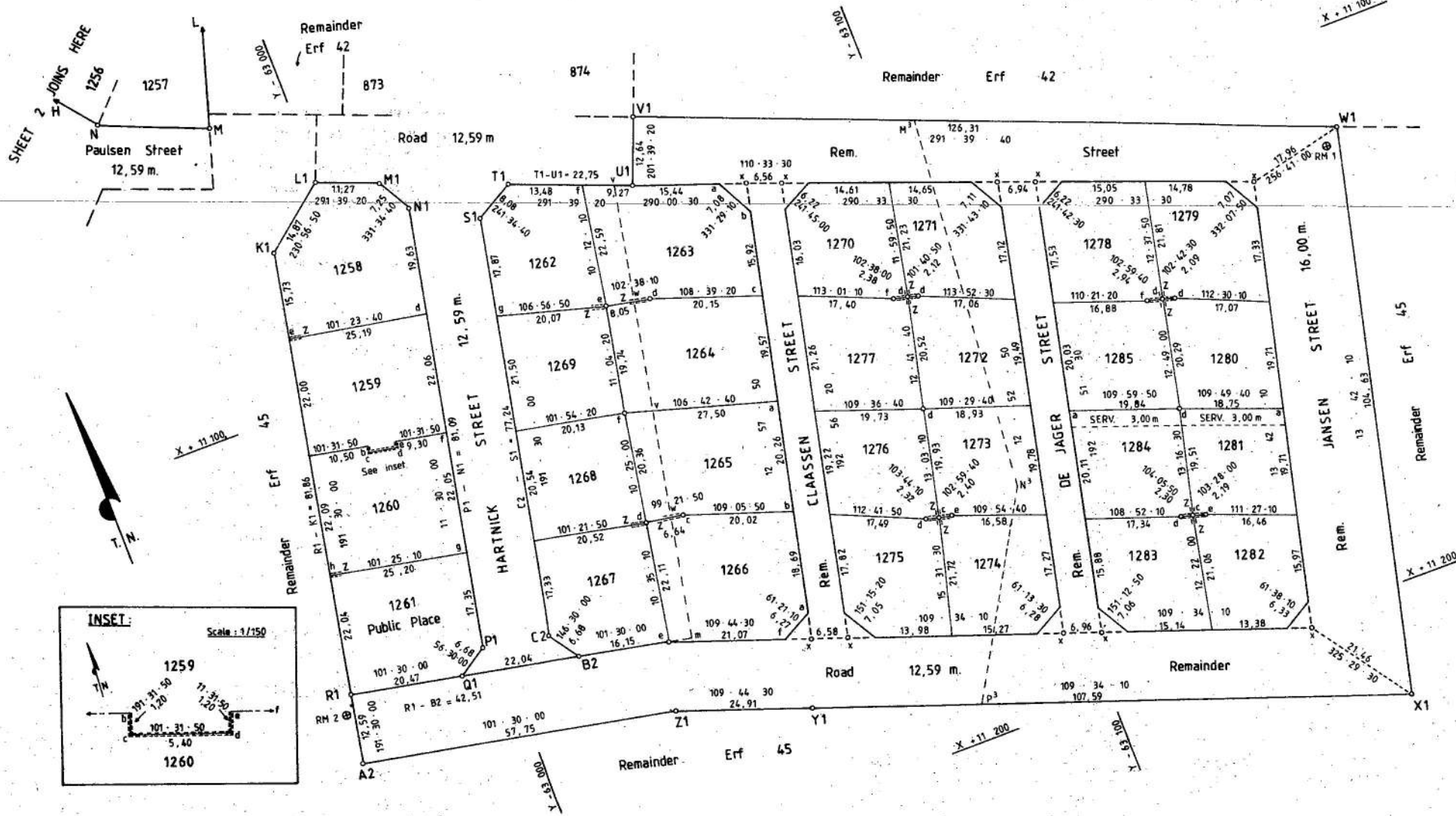
2. Gemeenskaplike mure is soos volg aangetoon: *****

KOÖRDINATE		
STELSEL	L ⁰ = 21°	
Y	X	
Konstante ± 0,00 + 3 700 000,00		
Meter		
HOOFFIGUUR		
ERF 866		
H	- 62 905,25	+ 10 958,85
J	- 62 923,59	+ 10 941,13
K	- 62 968,74	+ 11 005,61
L	- 62 985,62	+ 11 019,78
M	- 62 978,32	+ 11 042,24
N	- 62 957,62	+ 11 033,65
ERF 875		
K1	- 62 988,03	+ 11 071,07
L1	- 62 999,57	+ 11 061,70
M1	- 63 010,05	+ 11 065,86
N1	- 63 013,50	+ 11 072,23
P1	- 62 997,33	+ 11 151,68
Q1	- 62 991,76	+ 11 155,37
R1	- 62 971,70	+ 11 151,29
ERF 1185		
S1	- 63 025,08	+ 11 078,50
T1	- 63 032,18	+ 11 074,65
U1	- 63 053,33	+ 11 083,05
V1	- 63 057,99	+ 11 071,31
W1	- 63 175,39	+ 11 117,93
X1	- 63 150,60	+ 11 219,59
Y1	- 63 049,22	+ 11 183,55
Z1	- 63 025,78	+ 11 175,14
A2	- 62 969,19	+ 11 163,63
B2	- 63 013,36	+ 11 159,76
C2	- 63 009,67	+ 11 154,19
BLOKHOEKE		
1263x	- 63 072,28	+ 11 089,95
1266x	- 63 053,46	+ 11 171,69
1267e	- 63 029,18	+ 11 162,98
1270x	- 63 078,42	+ 11 092,25
1271x	- 63 114,65	+ 11 105,84
1274x	- 63 096,12	+ 11 186,86
1275x	- 63 059,66	+ 11 173,90
1278x	- 63 121,14	+ 11 108,28
1279x	- 63 157,91	+ 11 122,07
1282x	- 63 138,44	+ 11 201,90
1283x	- 63 102,67	+ 11 033,50
VERWYSINGSMERKE		
VM1	- 63 172,38	+ 11 120,76
VM2	- 62 969,68	+ 11 154,40
VM3	- 62 768,89	+ 10 828,13
VM4	- 62 818,07	+ 11 033,50
PEILBAKENS		
Δ 14	- 65 583,20	+ 8 636,29
Δ 125	- 61 487,95	+ 7 631,98
SLEUTELPLAN		

L. G. No. 18249 - 86
VEL No.1 VAN 2 VELLE
GOEDGEKEUR
LANDMETER - GENERAAL
GOEDGEKEUR KRAGTENS ARTIKEL 25
VAN ORD. 15/1985
VERWYSING
DATUM:

GROOTTES	
ERF No.	Vierkante Meter
1250	355
1251	355
1252	356
1253	359
1254	363
1255	360
1256	353
1257	347
1258	598
1259	561
1260	550
1261 (O.P.)	545
1262	441
1263	595
1264	554
1265	536
1266	592
1267	446
1268	415
1269	413
1270	398
1271	394
1272	381
1273	371
1274	415
1275	409
1276	386
1277	405
1278	424
1279	406
1280	379
1281	362
1282	372
1283	396
1284	390
1285	394

LEER NO. S/18272/106
M. S. NO. E 8164/86
KOMP. BK - 6AB/X31 (1672)



GENERAL PLAN NO. 15268 of SUBDIVISIONS of

- Figure HJKLMN representing Erf 866 Calitzdorp
vide diagram No. 7601/67 annexed to D/T 1968-18-920
- Figure K1 L1 M1 N1 P1 Q1 R1 representing Erf 875 Calitzdorp
vide diagram No. 7610/67 annexed to D/T 1968-18-920.
- Figure S1 T1 U1 V1 W1 X1 Y1 Z1 A2 R1 B2 C2 representing Erf 1185
Calitzdorp in Calitzdorp Township Extension No. 3
vide diagram No. 2089/85 annexed to D/T.

situate in the

MUNICIPALITY AND ADMINISTRATIVE DISTRICT OF CALITZDORP
PROVINCE OF THE CAPE OF GOOD HOPE

SURVEYED IN JUNE - AUGUST 1986

by me A. N. OTHER
LAND SURVEYOR.

SCALE 1:500

DESCRIPTION OF BEACONS:

1252b, 1254a, 1255b, 1258d, 1258e, 1260f, 1260g, }
1262e, 1262f, 1262g, 1268d, 1268f, 1273d, 1281d } Wooden fence post.
1260c, 1260d } Intersection of mid-wall lines.
W1, X1, Y1, Z1, A2 } 12mm round iron peg and cairn.
RM1 - RM4 } 12mm round iron peg in concrete.
All other beacons are 12mm round iron pegs.

SERVITUDE NOTES:

- Erven 1281 and 1284 are subject to a sewer servitude
3,00 metres wide as shown.
- The line M³ N³ P³ represents the centre line of a
servitude pipeline 6,00 metres wide.
Vide diagram No. 1728/1964 D/S K.68/66^S

NOTES: 1. Unless otherwise stated all splays are 4,72 metres.

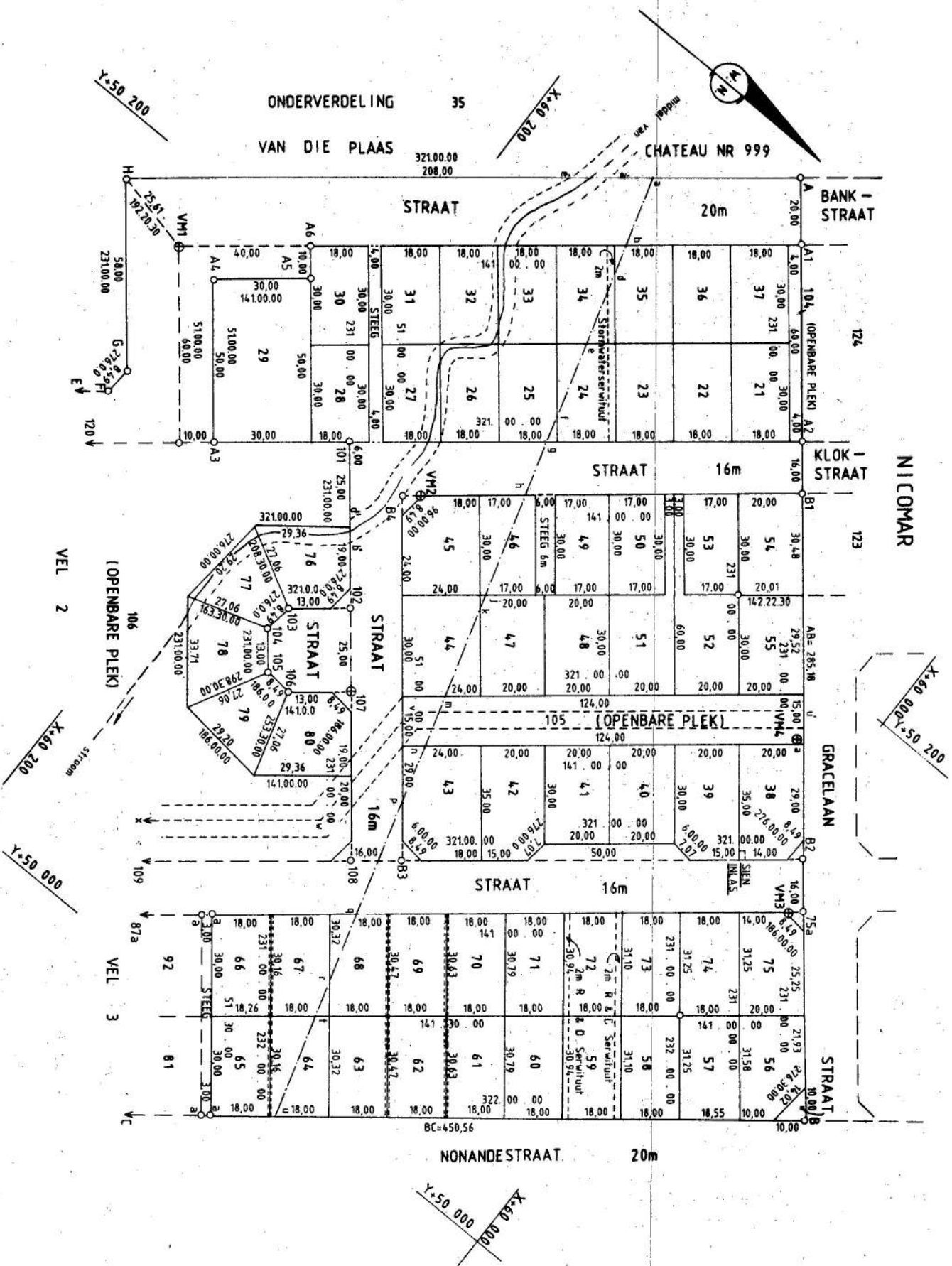
- Party walls are indicated as follows: =====

CO - ORDINATES	
SYSTEM Lo = 21° Y X	BLOCK CORNERS
Constants ± 0,00 +3700 000,00 Metres	1263x - 63 072,28 +11 089,95 1266x - 63 053,46 +11 171,69 1267e - 63 029,18 +11 162,98 1270x - 63 078,42 +11 092,25 1271x - 63 114,65 +11 105,84 1274x - 63 096,12 +11 186,86 1275x - 63 059,66 +11 173,90 1278x - 63 121,14 +11 108,28 1279x - 63 157,91 +11 122,07 1282x - 63 138,44 +11 201,90 1283x - 63 102,67 +11 033,50
MAIN FIGURE	REFERENCE MARKS
ERF 866	RM1 - 63 172,38 +11 120,76 RM2 - 62 969,68 +11 154,40 RM3 - 62 768,89 +10 828,13 RM4 - 62 818,07 +11 033,50
H - 62 905,25 +10 958,85 J - 62 923,59 +10 941,13 K - 62 968,74 +11 005,61 L - 62 985,62 +11 019,78 M - 62 978,32 +11 042,24 N - 62 957,62 +11 033,65	TRIG. BEACONS
ERF 875	Δ 14 - 65 583,20 + 8 636,29 Δ 125 - 61 487,95 + 7 631,98
K1 - 62 988,03 +11 071,07 L1 - 62 999,57 +11 061,70 M1 - 63 010,05 +11 065,86 N1 - 63 013,50 +11 072,23 P1 - 62 997,33 +11 151,68 Q1 - 62 991,76 +11 155,37 R1 - 62 971,70 +11 151,29	KEY PLAN SHEET 2 ERVEN 1250 - 1257 SHEET 1 ERVEN 1258 - 1285
ERF 1185	
S1 - 63 025,08 +11 078,50 T1 - 63 032,18 +11 074,65 U1 - 63 053,33 +11 083,05 V1 - 63 057,99 +11 071,31 W1 - 63 175,39 +11 117,93 X1 - 63 150,60 +11 219,59 Y1 - 63 049,22 +11 183,55 Z1 - 63 025,78 +11 175,14 A2 - 62 969,19 +11 163,63 B2 - 63 013,36 +11 159,76 C2 - 63 009,67 +11 154,19	

S. G. No. 18249 - 86
SHEET No.1 of 2 SHEETS
APPROVED
SURVEYOR - GENERAL
APPROVED IN TERMS OF SECT. 25 OF ORD. 15/1985
REF. DATE:

AREAS	
ERF No.	Square Metres
1250	355
1251	355
1252	356
1253	359
1254	363
1255	360
1256	353
1257	347
1258	598
1259	561
1260	550
1261(P.P.)	545
1262	441
1263	595
1264	554
1265	536
1266	592
1267	446
1268	415
1269	413
1270	398
1271	394
1272	381
1273	371
1274	415
1275	409
1276	386
1277	405
1278	424
1279	406
1280	379
1281	362
1282	372
1283	396
1284	390
1285	394

FILE NO. S/18272/106
SURVEY RECORDS NO. E 8164/86.
COMPILATION BK-6AB/X31 (1672)



ALGEMENE PLAN

(BESTAANDE UIT 3 VELLE)

VAN

REMBRANDT PARK

BEVATTENDE 103 ERWE GENOMMER 1-103, 7 OPENBARE PLEKKE GENOMMER 104-110 EN STRATE, GELEË OP ONDERVERDELING 38 VAN DIE PLAAS CHATEAU NR. 999
MUNISIPALITEIT BANGLA DESH, ADMINISTRATIEWE DISTRIK EN PROVINSIE NATAL
VOLGENS KAART L.G. NR. 7319/1976 EN TRANSPORTAKTE NR. 11715/1976
SKAAL 1 : 1 000

Opgemeet in Augustus 1980
Deur my

Landmeter

BAKENBESKRYWINGS

A, B, C, D, E, F, G, H
Alle Versekeringsmerke
Alle ander bakens

Ysterpaal en klipstapel
25mm ysterpen
20mm ysterpyl in beton, 250mm onder grondvlak
12x450mm ysterpen

NOTAS

1. Tensy anders aangetoon is alle hoekafstompings afstande 6,00 meter
2. Tensy anders aangetoon is alle versekeringsmerke 1,00 meter vanaf naaste erfbaken op lyn na blokhoek.
3. Alle afstande wat weggefaat is, is dieselfde as die wat weerskante gegee is.

SERWITUUTNOTAS

1. Erf 38 is onderhewig aan 'n Elektriese Substasieserwituut soos aangetoon.
2. Erwe 24 en 34 is elkeen onderhewig aan 'n Stormwaterserwituut 2,00 meter wyd soos aangetoon.
3. Erwe 59 en 72 is elkeen onderhewig aan twee Riool en Dreineerings-erwitute 2,00 meter wyd soos aangetoon.
4. Erwe 61, 63, 64, 65, 66, 67, 68, en 70 is elkeen onderhewig aan 'n halfbreedte van 'n Gemeenskaplikemuurserwituut 0,40 meter wyd soos aangetoon.
5. Erwe 62 en 69 is elkeen onderhewig aan die halfbreedte van twee Gemeenskaplikemuurserwitute 0,40 meter wyd soos aangetoon.
6. Die lyn u v x y z stel voor die hartlyn van 'n Elektriese Krag-lynserwituut 10,00 meter wyd, volgens kaart L.G. Nr. 7512/1972 en Serwituutakte Nr. 3295/1975 en raak Erwe 80, 93, 105 (Openbare Plek) en 106 (Openbare Plek).
7. Die figuur a' onreëlmatige lyn 3,00 meter vanaf middel van stroom b' d' onreëlmatige lyn e' stel voor 'n Riool en Dreineeringserwituut 6,00 meter wyd, volgens kaart L.G. Nr. 2701/1982 en Serwituutakte Nr. 916/1983 en raak Erwe 25, 26, 27, 32 en 33.
8. Erwe 76, 77 en 78 is elkeen onderhewig aan 'n Riool en Dreineerings-erwituut 6,00 meter wyd soos aangetoon.

KOORDINATE

Stelsel Lo. 29° Meter X
Konstantes ±0 +2 900 000

HOOFFIGUUR

A	+50 313,25	+60 122,82
B	+50 091,62	+59 943,35
C	+49 814,25	+60 298,40
D	+49 876,94	+60 373,14
E	+49 980,01	+60 432,65
F	+50 128,83	+60 248,86
G	+50 137,27	+60 247,97
H	+50 182,35	+60 284,47

BLOKHOEKE

A1	+50 297,70	+60 110,24
A2	+50 251,08	+60 072,48
A3	+50 136,53	+60 213,92
A4	+50 175,39	+60 245,38
A5	+50 194,27	+60 222,07
A6	+50 202,04	+60 228,36
B1	+50 238,64	+60 062,41
B2	+50 153,15	+59 993,18
B3	+50 075,12	+60 089,55
B4	+50 160,61	+60 158,78
65a	+49 979,23	+60 087,21
66a	+50 026,18	+60 124,56
75a	+50 140,72	+59 938,12
101	+50 162,97	+60 181,27
102	+50 124,11	+60 149,81
103	+50 112,16	+60 164,58
104	+50 103,72	+60 165,47
105	+50 093,61	+60 157,29
106	+50 092,73	+60 148,85
107	+50 104,68	+60 134,08
108	+50 065,05	+60 101,99

VERSEKERINGSMERKE

VM1	+50 176,87	+60 259,45
VM2	+50 163,75	+60 154,89
VM4	+50 180,56	+60 017,20
VM5	+50 137,57	+59 987,00

Blokhoek 107 is ook 'n versekeringsmerk

KONNEKSIE

38a-VM4 2,00 6,00 30

DRIEHOEKSBAKENS

672	+85 245,73	-2 635,35
999	+53 001,00	+60 000,00

GROOTTES

ERF NR.	VIK. METER
21-28	540
29	1500
30-37	540
38	682
39	688
40-41	600
42	687
43	822
44	720
45	702
46	510
47-48	600
49-50	510
51-52	690
53	510
54	605
55	595
56	585
57	574
58	561
59	558
60	556
61	553
62	550
63	547
64	544
65-66	545
67	544
68	547
69	550
70	553
71	556
72	558
73	561
74	563
75	607
76	587
77	471
78	584
79	471
80	587

OPENBARE PLEKKE

104	240
105	1860

L.G. No

VEL 1

GOEDGEKEUR

nms. LANDMETER GENERAAL

SLEUTELPLAN

SKAAL 1 : 10 000

VEL	ERWE
1	21-80 en 104-105 (OPENBARE PLEKKE)
2	1-20 en 106 (OPENBARE PLEK)
3	81-103 en 107-110 (OPENBARE PLEKKE)

Ernomsers kan ook in die figuur van die sleutelplan aangetoon word.

INLAS

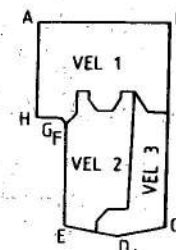
SKAAL 1 : 100 16m

38	(151,00 00)	(3,00)	(151,00 00)
	(321,00 00)	(12,00)	(321,00 00)
	(12,00)	(51 00 00)	(12,00)
		(3,00)	

39

CHURCHSTRAAT 16m

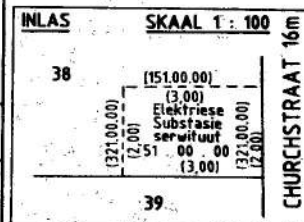
SLEUTELPLAN



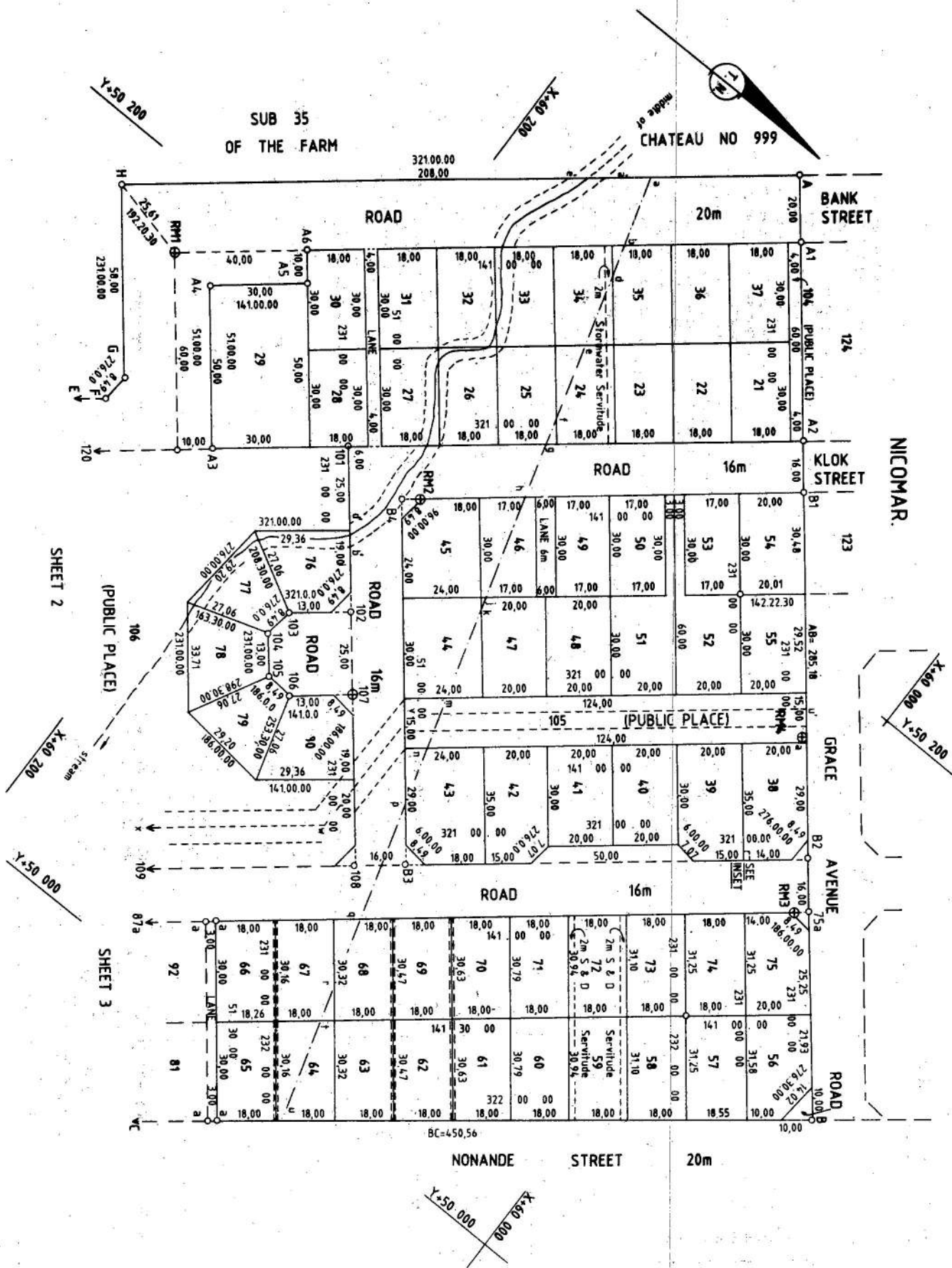
SKAAL 1 : 10 000

VEL	ERWE
1	21-80 en 104-105 (OPENBARE PLEKKE)
2	1-20 en 106 (OPENBARE PLEK)
3	81-103 en 107-110 (OPENBARE PLEKKE)

Ernomsers kan ook in die figuur van die steutelplan aangetoon word.



LÊER No. REMBRANDT PARK/1
MEETSTUKKE No. 2/1985
KOMPILASIE. FT-8B-15C-2
GRAADVEL. 59



GENERAL PLAN

(CONSISTING OF 3 SHEETS)
OF

REMBRANDT PARK

COMPRISING 103 LOTS NUMBERED 1-103, 7 PUBLIC PLACES NUMBERED 104-110 AND ROADS,
SITUATE ON
SUB 38 OF THE FARM CHATEAU NO. 999
BOROUGH OF BANGLA DESH, ADMINISTRATIVE DISTRICT AND PROVINCE OF NATAL
VIDE DIAGRAM S.G. NO. 7319/1976 AND DEED OF TRANSFER NO. 11715/1976

SCALE 1 : 1 000

Surveyed in August 1980

By me

Land Surveyor

DESCRIPTION OF BEACONS

A,B,C,D,F. Iron standard and cairn.
E,G,H. 25mm iron peg
All Reference Marks. 20mm iron pipe in concrete, 250mm
below ground level.
All other beacons. 12x450mm iron peg

NOTES

1. Unless otherwise indicated all splay distances are 6,00 metres
2. Unless otherwise indicated all reference marks are 1,00 metre from nearest Lot beacon on line to block corner
3. All distances which have been omitted are the same as those given on either side

SERVITUDE NOTES

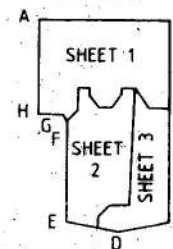
1. Lot 38 is subject to an Electric Sub-Station Servitude as shown.
2. Lots 24 and 34 are each subject to a Stormwater Servitude 2,00 metres wide as shown.
3. Lots 59 and 72 are each subject to two Sewer and Drain Servitudes 2,00 metres wide as shown.
4. Lots 61, 63, 64, 65, 66, 67, 68 and 70 are each subject to the half-width of of a Party-Wall Servitude 0,40 metres wide as shown.
5. Lots 62 and 69 are each subject to the half-width of two Party-Wall Servitudes 0,40 metres wide as shown.
6. The line u' v w x y z represents the centre line of an Electric Power Line Servitude 10,00 metres wide; vide diagram S.G. No. 7512/1972 and Deed of Servitude No. 3295/1975, and affects Lots 80, 93, 105 (Public Place) and 106 (Public Place).
7. The figure a' irregular line 3,00 metres from middle of stream b' d' irregular line e' represents Sewer and Drain Servitude 6,00 metres wide, vide Diagram S.G. 2701/1982 and Deed of Servitude No. 916/1983, and affects Lots 25, 26, 27, 32, and 33.
8. Lots 76, 77 and 78 are each subject to a Sewer and Drain Servitude 6,00 metres wide as shown.

CO-ORDINATES		
System	LO 29°	Metres
	Y	X
Constants	± 0	+2 900 000
MAIN FIGURE		
A	+50 313,25	+60 122,82
B	+50 091,62	+59 943,35
C	+49 814,25	+60 298,40
D	+49 876,94	+60 373,14
E	+49 980,01	+60 432,65
F	+50 128,83	+60 248,86
G	+50 137,27	+60 247,97
H	+50 182,35	+60 284,47
BLOCK CORNERS		
A1	+50 297,70	+60 117,24
A2	+50 251,08	+60 072,48
A3	+50 136,53	+60 213,92
A4	+50 175,39	+60 245,38
A5	+50 194,27	+60 222,07
A6	+50 202,04	+60 228,36
B1	+50 238,64	+60 062,41
B2	+50 153,15	+59 993,18
B3	+50 075,12	+60 089,55
B4	+50 160,61	+60 158,78
65a	+49 979,23	+60 087,21
66a	+50 026,18	+60 124,56
75a	+50 140,72	+59 938,12
101	+50 162,97	+60 181,27
102	+50 124,11	+60 149,81
103	+50 112,16	+60 164,58
104	+50 103,72	+60 165,47
105	+50 093,61	+60 157,29
106	+50 092,73	+60 148,85
107	+50 104,68	+60 134,08
108	+50 065,05	+60 101,99
REFERENCE MARKS		
RM1	+50 176,87	+60 259,45
RM2	+50 163,75	+60 154,89
RM4	+50 180,56	+60 017,20
RM5	+50 137,57	+59 987,00
Block corner 107 is also a Reference Mark.		
CONNECTION		
38a-RM4	2,00	6,00 30
TRIGONOMETRICAL BEACONS		
672	+85 245,73	-2 635,35
999	+53 001,00	+60 000,00

AREAS	
LOT NO	Square Metres
21-28	540
29	1500
30-37	540
38	682
39	688
40-41	600
42	687
43	822
44	720
45	702
46	510
47-48	600
49-50	510
51-52	690
53	510
54	605
55	595
56	585
57	574
58	561
59	558
60	556
61	553
62	550
63	547
64	544
65-66	545
67	544
68	547
69	550
70	553
71	556
72	558
73	561
74	563
75	607
76	587
77	471
78	584
79	471
80	587
PUBLIC PLACES	
104	240
105	1860

S.G. NO
SHEET 1
APPROVED
for SURVEYOR GENERAL

KEY PLAN



SCALE 1 : 10 000

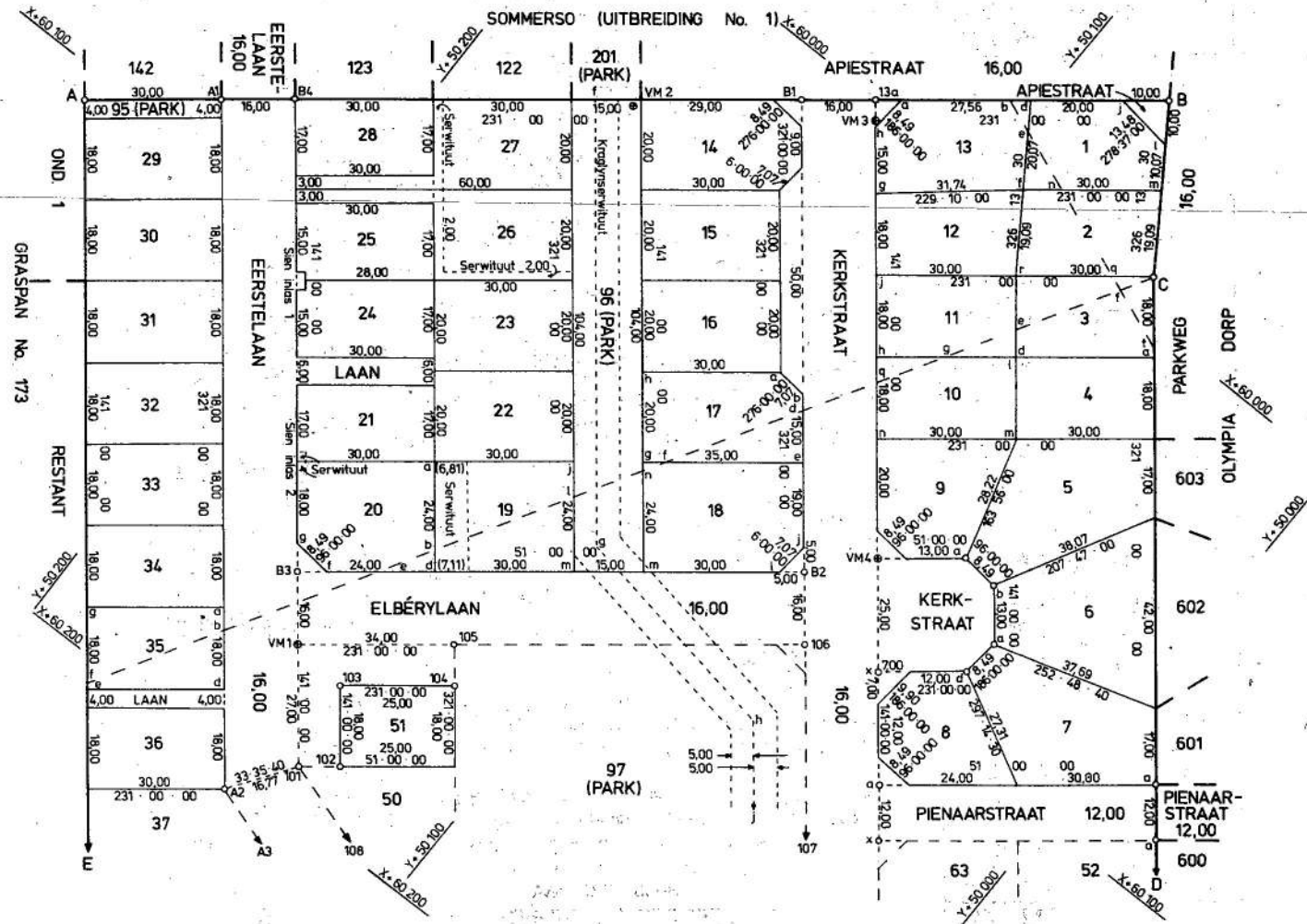
SHEET	LOTS
1	21-80 and 104-105 (PUBLIC PLACES)
2	1-20 and 106 (PUBLIC PLACE)
3	81-103 and 107-110 (PUBLIC PLACES)

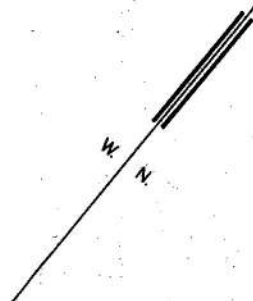
Lot numbers can also be indicated in the figure of the plan

INSET	SCALE 1 : 100
38	(51,00,00) (3,00) Electric Sub-Station Servitude (51,00,00) (3,00) (321,00,00) (2,00) (321,00,00) (2,00) CHURCH STREET
39	

FILE NO: REMBRANDT PARK/1
SURVEY RECORDS NO 2/1985
COMPILATION: FT-8B-15C-2
DEGREE SHEET: 59

GROOTTES	
ERF No.	VIERTANTE METER
1	550
2	570
3 - 4	540
5	889
6	962
7	871
8	570
9	619
10 - 11	540
12	571
13	651
14	670
15 - 16	600
17	687
18	827
19	720
20	702
21	510
22 - 23	600
24 - 25	506
26 - 27	690
28	510
29 - 36	540
51	450
95 (PARK)	120
96 (PARK)	1 560





ALGEMENE PLAN

VAN DIE DORP

ROOSHOF

BEVATTENDE 99 ERWE GENOMMER 1-99 EN DIE STRATE
GELEË OP ONDERVERDELING 2 (VAN 1) VAN DIE PLAAS
GOEIE HOOP No. 679.
SIEN KAART LG. No. 1370/1979; TRANSPORTAKTE No. 1111/1979.
ADMINISTRATIEWE DISTRIK: KOPPIES. PROVINSIE: ORANJE-VRYSTAAT.
OPGEMEET IN MEI 1982 DEUR MY

LANDMETER.
J. PUBLIEK

BAKENBESKRYWINGS:

- A, B YSTERPAAL EN KLIPSTAPEL.
C, E 12mm YSTERPEN.
2r, 17g 12mm GAT IN ROTS.
VM1 - VM4 12mm GEELKOPERPEN IN BETON, ONDER GROND, IN STANDAARD YSTERKISSIE.
Alle ander bakens 12mm x 450mm YSTERPEN.

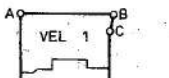
SERWITUUTNOTAS:

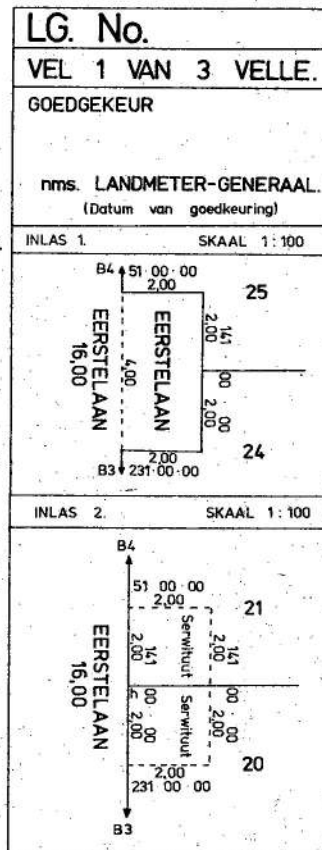
- 1) ERWE 26 EN 27 IS ONDERHEWIG AAN 'N SERWITUUT 2,00 METER WYD SOOS AANGETOON.
- 2) ERF 19 IS ONDERHEWIG AAN 'N SERWITUUT SOOS AANGETOON.
- 3) ERWE 20 EN 21 IS ONDERHEWIG AAN 'N TRANSFORMATORSERWITUUT SOOS AANGETOON.
- 4) DIE LYN fghjm STEL VOOR DIE MIDDELLYN VAN 'N ELEKTRIESE KRAGLYNSERWITUUT 10,00 METER WYD MET ONDERGRONDSE KABELS. SIEN KAART LG. No. 765/1970 GEHEG AAN AKTE VAN SERWITUUT No. K 123/1970⁵ EN AFFEKTEER ERWE 18, 76, 96 (PARK) EN 97 (PARK).

NOTAS:

- 1) ALLE BLOKHOEKE IS MET 6,00 METER STOMPGESNY BEHALWE WAAR ANDERS AANGETOON.
- 2) ALLE VERSEKERINGSMERKE IS 1,00 METER VANAF DIE NAASTE ERFBAKEN OP LYN NA DIE BLOKHOEK BEHALWE WAAR ANDERS AANGETOON.

SKAAL 1:750

VELINDELING	SKAAL 1: 10 000	VEL	ERWE
		1	1-36, 51, 95 (PARK), 96 (PARK)
		2	37-50, 52-63, 97 (PARK)
		3	64-94, 98 (PARK), 99 (PARK)
		(Die ernommers kan ook in die figuur van die Velin-deling aangetoon word.)	



LÊER No.
MEETSTUK: 300/1983
KOMPILASIE: FP-1C-10/A

MAIN FIGURE DATA		
Sides	Metres	Angles of Direction
AB	235,56	231 00 00
BC	39,16	326 13 30
CD	390,00	321 00 00
DE	231,99	51 00 00
EA	429,00	141 00 00

CO-ORDINATES		
SYSTEM	Lo 27°	Metres
CONSTANTS	Y: 0,00	X: 2 900 000,00

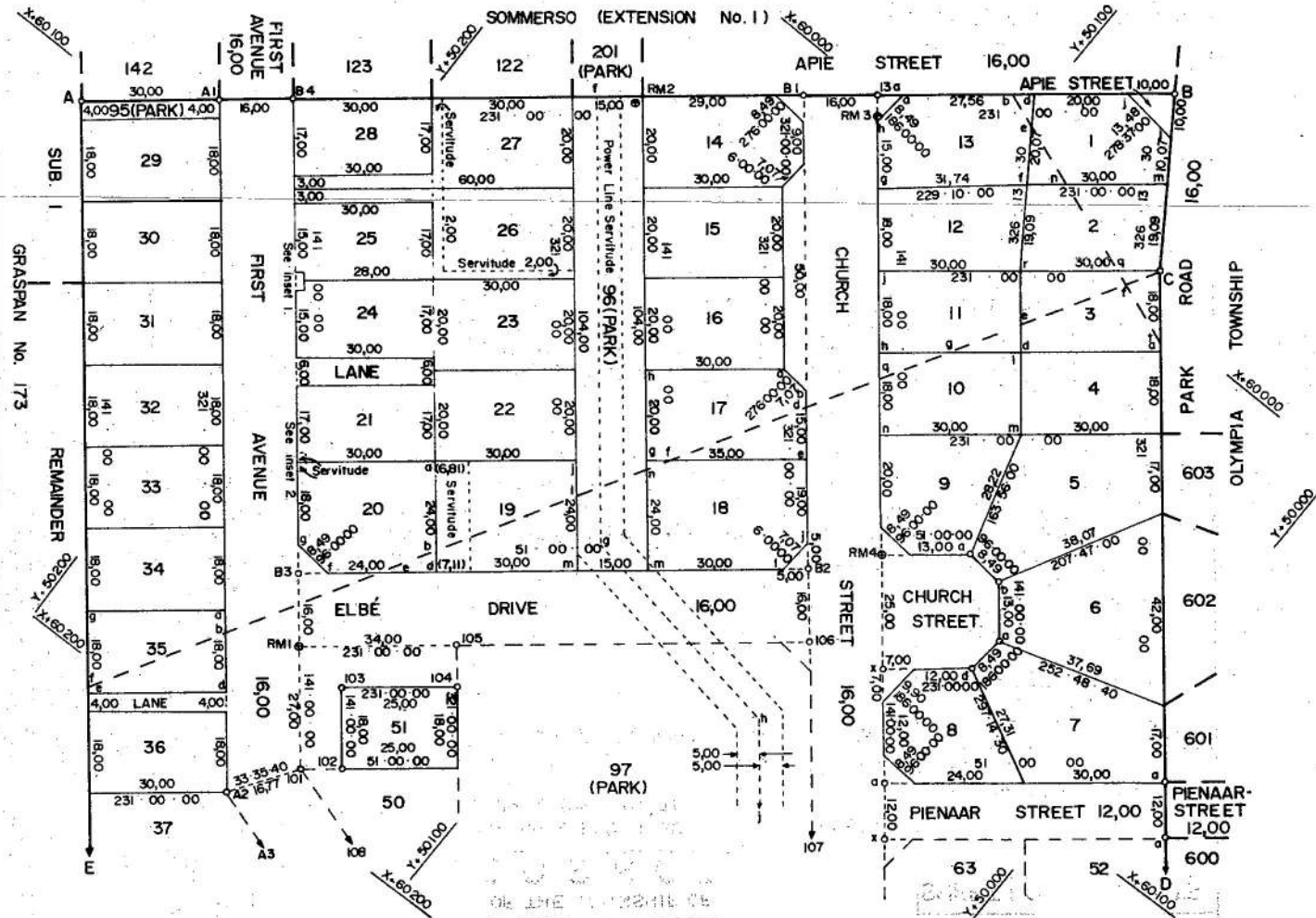
MAIN FIGURE		
	Y	X
A	+ 50 261,81	+ 60 106,91
B	+ 50 078,74	+ 59 958,67
C	+ 50 056,97	+ 59 991,22
D	+ 49 811,54	+ 60 294,31
E	+ 49 991,83	+ 60 440,31

BLOCK CORNERS		
A1	+ 50 238,49	+ 60 088,03
A2	+ 50 142,83	+ 60 206,16
B1	+ 50 140,57	+ 60 008,73
B2	+ 50 075,12	+ 60 089,55
B3	+ 50 160,60	+ 60 158,78
B4	+ 50 226,06	+ 60 077,96
6a	+ 50 033,19	+ 60 076,19
6b	+ 50 041,37	+ 60 066,09
7a	+ 49 986,49	+ 60 078,26
8a	+ 50 033,11	+ 60 116,02
8d	+ 50 034,08	+ 60 084,64
8x	+ 50 048,84	+ 60 096,60
9a	+ 50 049,81	+ 60 065,20
RM 4	+ 50 064,58	+ 60 077,16
13a	+ 50 128,14	+ 59 998,67
102	+ 50 126,55	+ 60 186,53
103	+ 50 137,88	+ 60 172,54
104	+ 50 118,45	+ 60 156,81

REFERENCE MARKS		
RM 1	+ 50 150,54	+ 60 171,21
RM 2	+ 50 167,98	+ 60 032,75
RM 3	+ 50 124,99	+ 60 002,56
RM 4	+ 50 064,58	+ 60 077,16

TRIGONOMETRICAL BEACONS		
PRIMROSE (672)	▲	
UITKYK (999)	▲	
	+ 85 245,73	+ 52 635,35
	+ 53 001,00	+ 60 000,00

AREAS		
ERF No.		Square metres
1		550
2		570
3 - 4		540
5		889
6		962
7		871
8		570
9		619
10 - 11		540
12		571
13		651
14		670
15 - 16		600
17		687
18		827
19		720
20		702
21		510
22 - 23		600
24 - 25		506
26 - 27		690
28		510
29 - 36		540
51		450
95(PARK)		120
96(PARK)		1 560



GENERAL PLAN OF THE TOWNSHIP OF ROOSHOF

COMPRISING 99 ERVEN NUMBERED 1-99 AND THE STREETS,
SITUATED ON SUBDIVISION 2 (OF 1) OF THE FARM
GOOD HOPE No. 679.
VIDE DIAGRAM SG. No. 1370/1979; DEED OF TRANSFER No. 1111/1979
ADMINISTRATIVE DISTRICT: KOPPIES. PROVINCE: ORANGE FREE STATE
SURVEYED IN MAY 1982 BY ME

LAND SURVEYOR.
J. PUBLIC.

DESCRIPTION OF BEACONS

A, B IRON STANDARD AND CAIRN.
C, E 12mm IRON PEG.
2r, 17g 12mm HOLE IN ROCK.
RM1-RM4 12mm BRASS PEG IN CONCRETE, UNDERGROUND, IN STANDARD IRON BOX
All other beacons 12mm x 450mm IRON PEG.

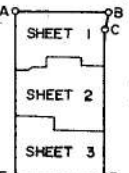
SERVITUDE NOTES

- 1) ERVEN 26 AND 27 ARE SUBJECT TO A SERVITUDE 2,00 METRES WIDE, AS INDICATED.
- 2) ERF 19 IS SUBJECT TO A SERVITUDE AS INDICATED.
- 3) ERVEN 20 AND 21 ARE SUBJECT TO A TRANSFORMER SERVITUDE AS INDICATED.
- 4) THE LINE fghlm REPRESENTS THE CENTRE LINE OF A ELECTRIC POWER LINE SERVITUDE 10,00 METRES WIDE WITH UNDERGROUND CABLES, VIDE DIAGRAM S.G. No. 765/1970 ANNEXED TO DEED OF SERVITUDE No. K123/1970⁵ AND AFFECTS ERVEN 18, 76, 96 (PARK) AND 97 (PARK).

NOTES:

- 1) ALL SPLAY DISTANCES ARE 6,00 METRES UNLESS OTHERWISE INDICATED.
- 2) ALL REFERENCE MARKS ARE 1,00 METRE FROM THE NEAREST ERF BEACON ON LINE TO BLOCK CORNER, UNLESS OTHERWISE INDICATED.

SCALE 1:750

KEY PLAN	SCALE 1:10000	SHEET	ERVEN
		1	1-36, 51, 95(PARK), 96(PARK)
		2	37-50, 52-63, 97(PARK)
		3	64-94, 98(PARK), 99(PARK)
		(Erf numbers can also be indicated in the figure of the key plan)	

SG. No.

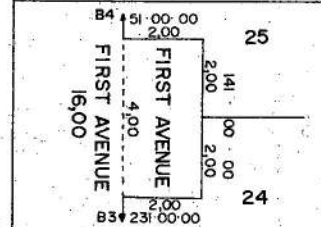
SHEET 1 OF 3 SHEETS.

APPROVED

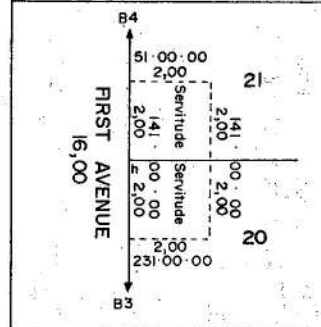
for SURVEYOR - GENERAL.

(Leave space for date of approval)

INSET 1 SCALE 1:100

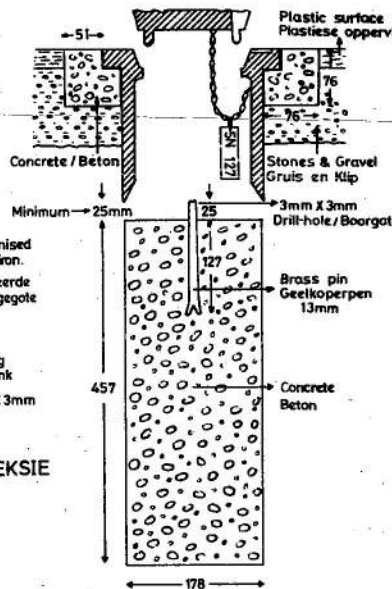
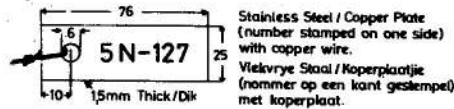
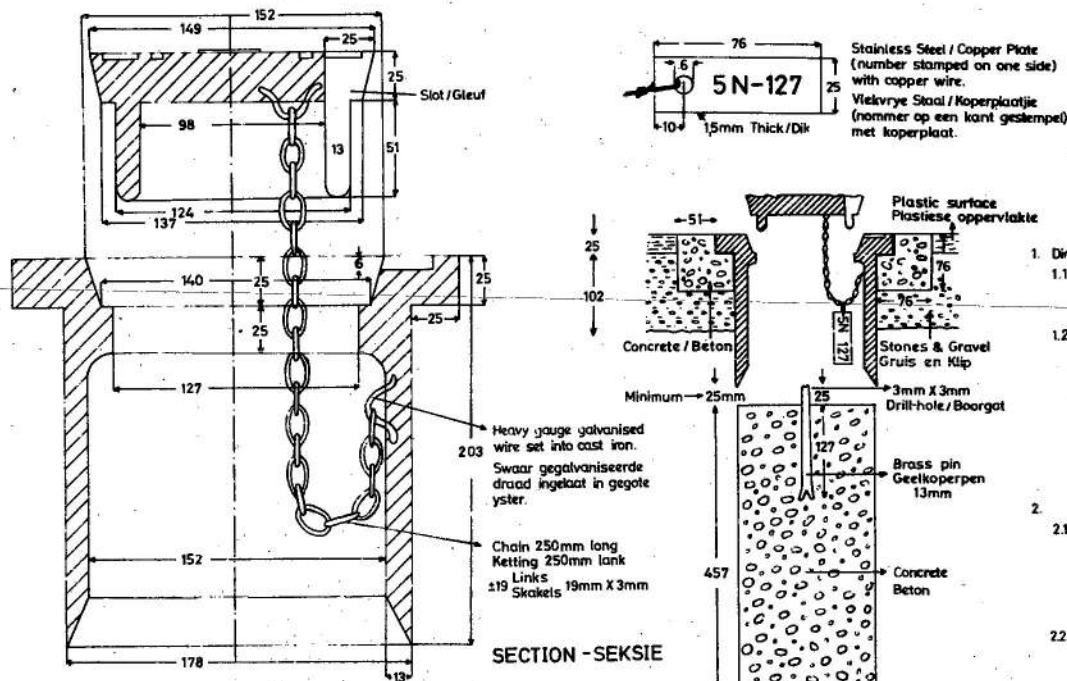


INSET 2 SCALE 1:100



FILE No.

SURVEY RECORDS: 300/1983
COMPILATION: FP-IC-10/A

DESIGN FOR
ONTWERP VIRREFERENCE MARK
VERSEKERINGSMERK

1. Dimensions and Tolerances.

- 1.1. All castings, chains and chain staples shall conform to the relevant dimensional requirements given on the plan.
- 1.2. Covers and frames shall be free from twist, shall be so finished that covers rest evenly on intended mutual bearing surfaces and shall not rock. When fitted to frames, covers shall fit sufficiently loosely to be retained in position by weight only. The top surfaces of covers, including anti-slip projections, shall not protrude above, nor be more than 15mm below the tops of associated frames.

2. Material and Finish.

- 2.1. Castings shall be manufactured in good quality grey cast iron and not of iron which appears white on fracture. All castings shall be sound, homogeneous and free from sand and blow-holes, cold shuts, scab and other defects.
- 2.2. The chemical analysis of grey cast iron is given in the following table:-

COMPOSITION of CAST-IRON
SAMESTELLING van GEGOTE YSTER

Carbon Koolstof %	Silicon Silicium %	Sulphur Swael % max / maks	Phosphorus Fosfor % max / maks	Manganese Mangaan %
3,5 - 4,0	1 25 - 2 0	0,05	0,02	0,75 - 1,0

23. Chains and chain staples shall be of Mild Steel.

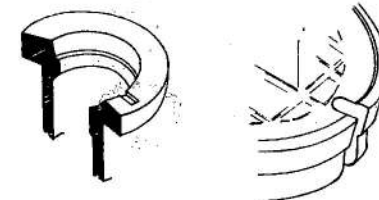
1. Afmetings en Toleransies.

- 1.1. Gietstukke, kettings en kettingkramme, moet voldoen aan die afmeting en vereistes wat op die plan aangegee word.
- 1.2. Deksele en rame mag nie verwring wees nie. Hulle moet so afgewerk wees dat die deksels sonder om te wikkels gelyk op die bestaande draagstukke rus. Wanneer die deksels van rame voorsien is moet hulle los genoeg daarin pas om slegs deur hul eie gewig op hulle plek te bly. Die bovlak van die deksels met inbegrip van die uitsteeksel om gelyk te verhoed mag nie bokant die bovlak van die byhorende raam uitsteek of meer as 15mm daaronder lê nie.

2. Materiaal en Afwerking.

- 2.1. Gietstukke moet vervaardig word van grys fyn-korrelrige gietyster van goeie kwaliteit en nie van yster wat by breuk wit vertoon nie. Gietstukke moet gaaf en homogeen wees en geen sand of gietgate, koudvergieting, skilfers of ander gebreke toon nie.
- 2.2. Die chemiese ontleding van grys-gietyster word in onderstaande tabel aangegee:-

23. Kettings en kettingkramme moet van sagte-staal wees.



PERSPECTIVE VIEW — PERSPEKTIEWE AANSIG

Use it.

Don't abuse



it.

water is for everybody

Werk mooi daarmee.

Ons leef



daarvan.

water is kosbaar

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