1:50 000 SOUTH AFRICA SUID-AFRIKA 2230AA&AC MUSINA **30°**10′ **30°**00′ 6 Mtetengwe 20′ MESSINA (TVL) DEV. COLLTD COPPER MINE Masina ·489 MAREM •545 MAREMANINATURE RESERVE .538 BERKENRODE 45 MT €548 MAGDALA 9 MT MESSINANATURE RESERVE 22°24′ **30°**10′ **30°**00′ 05' Printed by the Chief Directorate: Surveys and Mapping. Published by the Chief Directorate: Surveys and Mapping, Private Bag X10, Mowbray Gedruk deur die Hoofdirektoraat: Opmetings en Kartering. Gepubliseer deur die Hoofdirektoraat: Opmetings en Kartering, Privaatsak X10, Mowbray © State Copyright 2003 Staatsouteursreg CONTOUR INTERVAL 20 METRES KONTOERTUSSENRUIMTE 20 METER This map may not be reproduced by any means, including digital, without prior permission. Hierdie kaart mag nie deur enige metode herproduseer word, insluitend digitaal, sonder vooraf verkreë goedkeuring nie. Hoogtes is in meter bo gemiddelde seespieël REFERENCE VERKLARING Gauss Conform Projection. Central Meridian 29° East. VERKLARING REFERENCE Hartebeesthoek 94 Datum (WGS84 Ellipsoid). Mean magnetic declination 12°57' West of True North( July 2002 ). International Boundary and Beacon National Freeway; National Route. ...Nasionale Deurpad; Nasionale Roete .....Provinsiale Grens Provincial Boundary... Mean annual change 7' Westwards( 2000–2005 ). ......Hoofverkeersroete Arterial Route...... .....Bewarings Gebied Protected Area..... Supplied by Hermanus Magnetic Observatory. ...... Hoofpad Main Road ...... ...Standhoudende Rivier Perennial River.... Secondary Road; Bench Mark.... ....Standhoudende Water Perennial Water... Gemiddelde magnetiese deklinasie 12°57′ Wes van Ware Noord( Julie 2002 ). ....Ander Pad; Brug Other Road; Bridge ..... ...Nie-standhoudende Rivier Non-perennial River. Gemiddelde jaarlikse verandering 7' Weswaarts( 2000–2005 ). .. Dowwe Pad en Voetslaanpad Track and Hiking Trail..... ...Nie-standhoudende Water Non-Perennial Water.. Voorsien deur die Hermanus Magnetiese Observatorium. Railway; Station or Siding... ...Spoorweg; Stasie of Sylyn Dry Water Course ..... ....Ander Spoorweg; Tonnel Other Railway; Tunnel.. Dry Pan ..... INDEX TO SHEETS INDEKS VAN VELLE .....Opvulling; Deurgrawing Embankment; Cutting... .... Moeras en Vlei Marsh and Vlei...... ofer = ofer = ofer = ofer = ofe Power Line..... Pipeline (above ground).. ...Pyplyn (bo die grond) Built-up Area (High, Low Density).... Watertoring; Reservoir; Waterpunt •WT •R •F .....Geboue; Murasie Buildings; Ruin..... ..... Kuslynrotse Coastal Rocks .... Hubbarrh Hally Hyper Post Office; Police Station; Store.. •P •PS •W .. Poskantoor; Polisiestasie; Winkel 2229BB ZIMBABWE . Prominente Klipbank Prominent Rock Outcrop Place of Worship; School; Hotel .. .. Plek van Aanbidding; Skool; Hotel •K •S •H ..... Erosie; Sand Erosion; Sand...... CILLI CO .....Draadheining; Muur Fence; Wall .... ...Beboste Gebied Woodland ..... ...Windpomp; Monument Windpump; Monument.... Cultivated Land..... .... Bewerkte Land Communication Tower.... **2230AA &AC** R.S.A.

2229BD

2229DB 22230CA

WGS84

Cadastral information supplied by the Surveyor-General

The delimitation of international and provincial boundaries on this map should not be considered as authoritative.

Original Farms .....

Mine Dump; Excavation ...

Cemetery; Grave ....

Lighthouse and Marine Light...

Trigonometrical Station; Marine Beacon...

....Mynhoop; Uitgrawing

... Peilbaken; Seevaartbaken

....Vuurtoring en Seevaartlig .....Begraafplaas; Graf 2230AD

22230CB

Recreation Ground....

Row of Trees.....

....Boord of Wingerd

..... Rye Bome

...Ontspanningsterrein

Rec

Kadastrale inligting verstrek deur die Landmeter-generaal

2230AA MUSINA THIRD EDITION 1999



Gauss Conform Projection. Central Meridian 31° East

Contour Interval 5 Metres

Grid Interval 1 000 Metres

Hartebeesthoek 94 Datum

WGS84 Ellipsoid

1:10 000

Gauss Konforme Projeksie. Middelmeridiaan 31° Oos

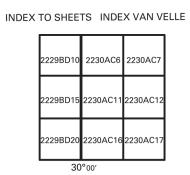
Kontoertussenruimte 5 Meter

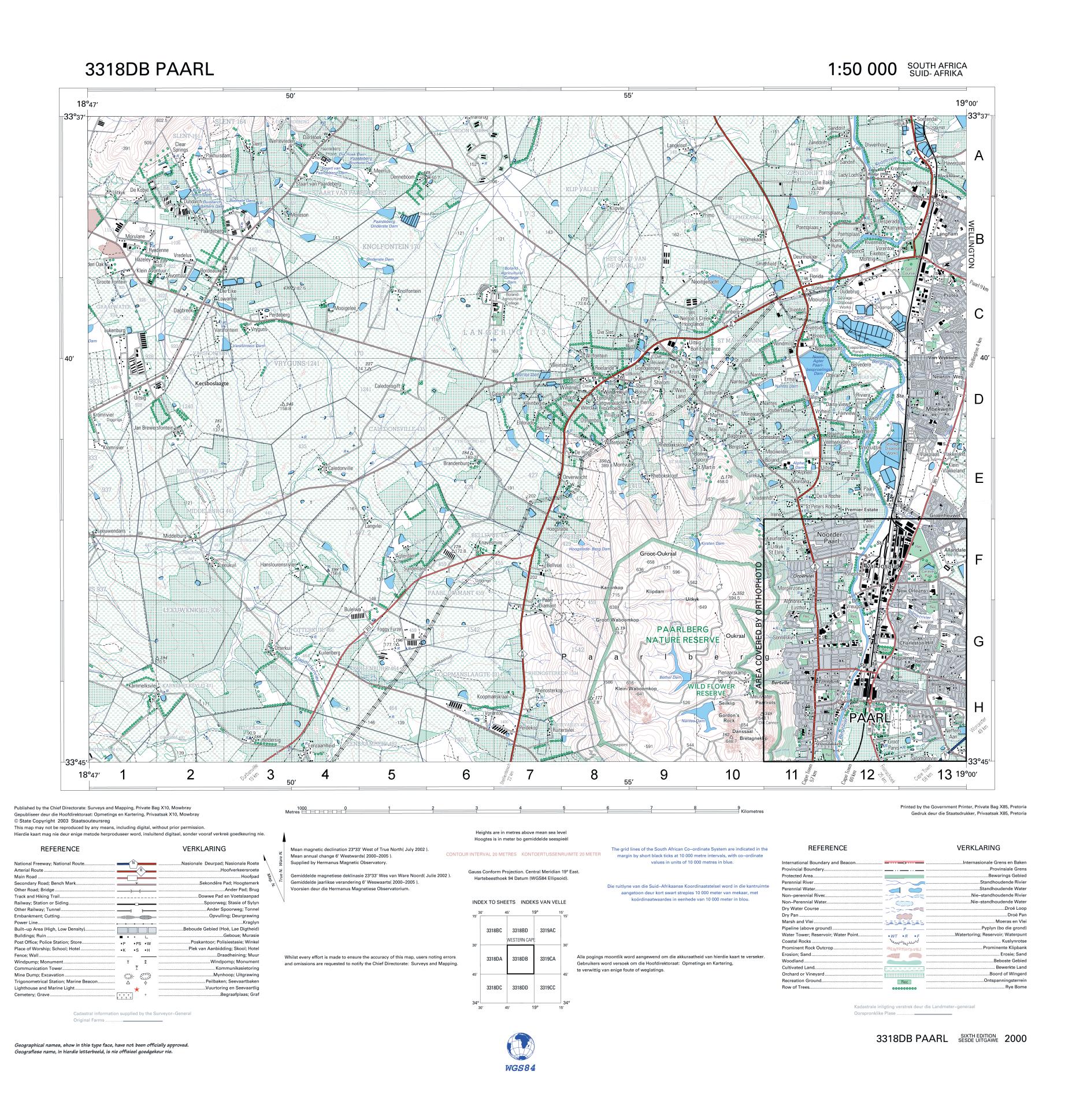
Ruittussenruimte 1 000 Meter

Hartebeesthoek 94 Datum

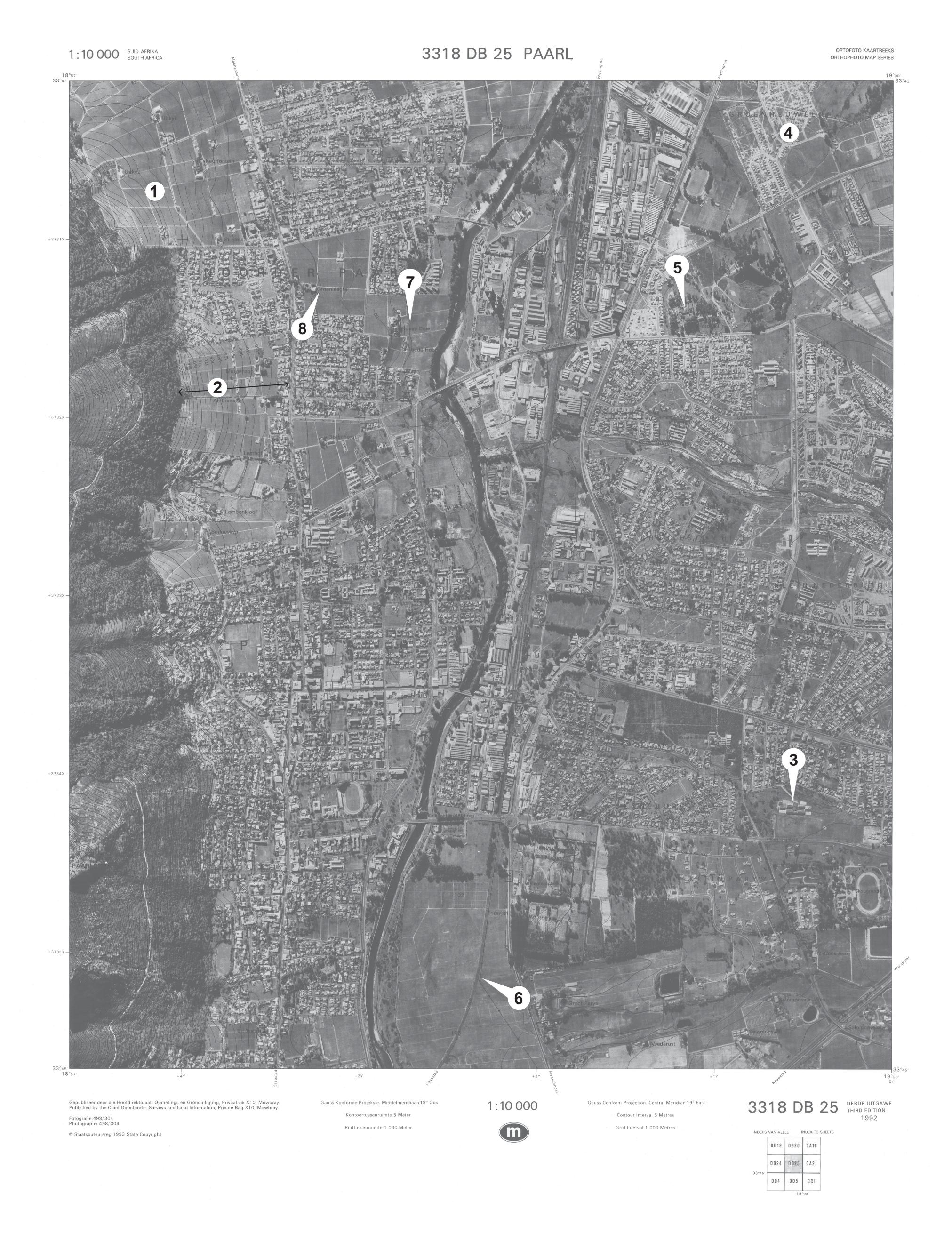
WGS84 Ellipsoid

2230 AC 11 SECOND EDITION TWEEDE UITGAWE 2004





maps on A1.indd 3



maps on A1.indd 4

## 1:50 000 SOUTH AFRICA SUID-AFRIKA 3424BB HUMANSDORP 10 part litabeth **24°**57′ **24°**45′<sub>P/6</sub> Jeffreys Bay Jeffreys Bay (R)05' 05′ Q 4 Paradise Beach 4 0 SBOSCH 707 701 4 34°09′<sup>⊥</sup> **34°**09′ 24°57′ **24°**45′ 55′ Printed by the Chief Directorate: Surveys and Mapping. Published by the Chief Directorate: Surveys and Mapping, Private Bag X10, Mowbray 1000 0 Metres Gedruk deur die Hoofdirektoraat: Opmetings en Kartering. Gepubliseer deur die Hoofdirektoraat: Opmetings en Kartering, Privaatsak X10, Mowbray © State Copyright 2002 Staatsouteursreg This map may not be reproduced by any means, including digital, without prior permission. Hierdie kaart mag nie deur enige metode herproduseer word, insluitend digitaal, sonder vooraf verkreë goedkeuring nie. Heights are in metres above mean sea level Hoogtes is in meter bo gemiddelde seespieël REFERENCE VERKLARING VERKLARING REFERENCE CONTOUR INTERVAL 20 METRES KONTOERTUSSENRUIMTE 20 METER ...Internasionale Grens en Baken National Freeway; National Route... International Boundary and Beacon .....Provinsiale Grens Arterial Route..... ....Hoofverkeersroete Provincial Boundary... Gauss Conform Projection. Central Meridian 25° East. ....Bewarings Gebied Protected Area..... Main Road ..... ...... Hoofpad Hartebeesthoek 94 Datum (WGS84 Ellipsoid). ...Standhoudende Rivier Perennial River.... ...Sekondêre Pad; Hoogtemerk Secondary Road; Bench Mark... .....Ander Pad; Brug Perennial Water.... Other Road; Bridge .... .. Dowwe Pad en Voetslaanpad Non-perennial River ...Nie-standhoudende Rivier Track and Hiking Trail..... INDEX TO SHEETS INDEKS VAN VELLE Railway; Station or Siding.... .Spoorweg; Stasie of Sylyn Non-Perennial Water... ...Nie-standhoudende Water .....Droë Loop ...Ander Spoorweg; Tonnel Dry Water Course .... ...... Droë Pan Dry Pan ...... Embankment; Cutting.... ....Opvulling; Deurgrawing Marsh and Vlei ...... ... Moeras en Vlei .....Kraglyn Power Line..... Pipeline (above ground)..... ..Pyplyn (bo die grond) ...Beboude Gebied (Hoë, Lae Digtheid) Built-up Area (High, Low Density)..... Mean magnetic declination 25°29' West of True North( July 2001 ). 3324DC 3324DD 3325CC Watertoring; Reservoir; Waterpunt ....Geboue; Murasie Water Tower; Reservoir; Water Point.. Buildings; Ruin...... Mean annual change 9' Westwards( 1995–2000 ). •WT •R •F Post Office; Police Station; Store.... .Poskantoor; Polisiestasie; Winkel Coastal Rocks.... MANAHAMAHAMA M ...... Kuslynrotse •P •PS •W · Supplied by Hermanus Magnetic Observatory. Prominent Rock Outcrop . Prominente Klipbank Place of Worship; School; Hotel .... .. Plek van Aanbidding; Skool; Hotel •K •S •H ..... Erosie; Sand Erosion; Sand...... Fence; Wall .... .....Draadheining; Muur Gemiddelde magnetiese deklinasie 25°29' Wes van Ware Noord( Julie 2001 ). 3424BA ...Beboste Gebied .Windpomp; Monument Woodland..... Windpump; Monument... Gemiddelde jaarlikse verandering 9' Weswaarts( 1995-2000 ). A CITY Cultivated Land.... ... Bewerkte Land Communication Tower.... ..... Kommunikasietoring Voorsien deur die Hermanus Magnetiese Observatorium. ....Mynhoop; Uitgrawing ....Boord of Wingerd Mine Dump; Excavation ... ....Ontspanningsterrein Trigonometrical Station; Marine Beacon..... . Peilbaken; Seevaartbaken Recreation Ground... Rec Lighthouse and Marine Light.... ...Vuurtoring en Seevaartlig Row of Trees..... ....Begraafplaas; Graf Cemetery; Grave.... Kadastrale inligting verstrek deur die Landmeter-generaal Cadastral information supplied by the Surveyor-General Oorspronklike Plase .....

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Original Farms .....

maps on A1.indd 5



Alle pogings moontlik word aangewend om die akkuraatheid van hierdie kaart te verseker. Gebruikers word versoek om die Hoofdirektoraat: Opmetings en Kartering,

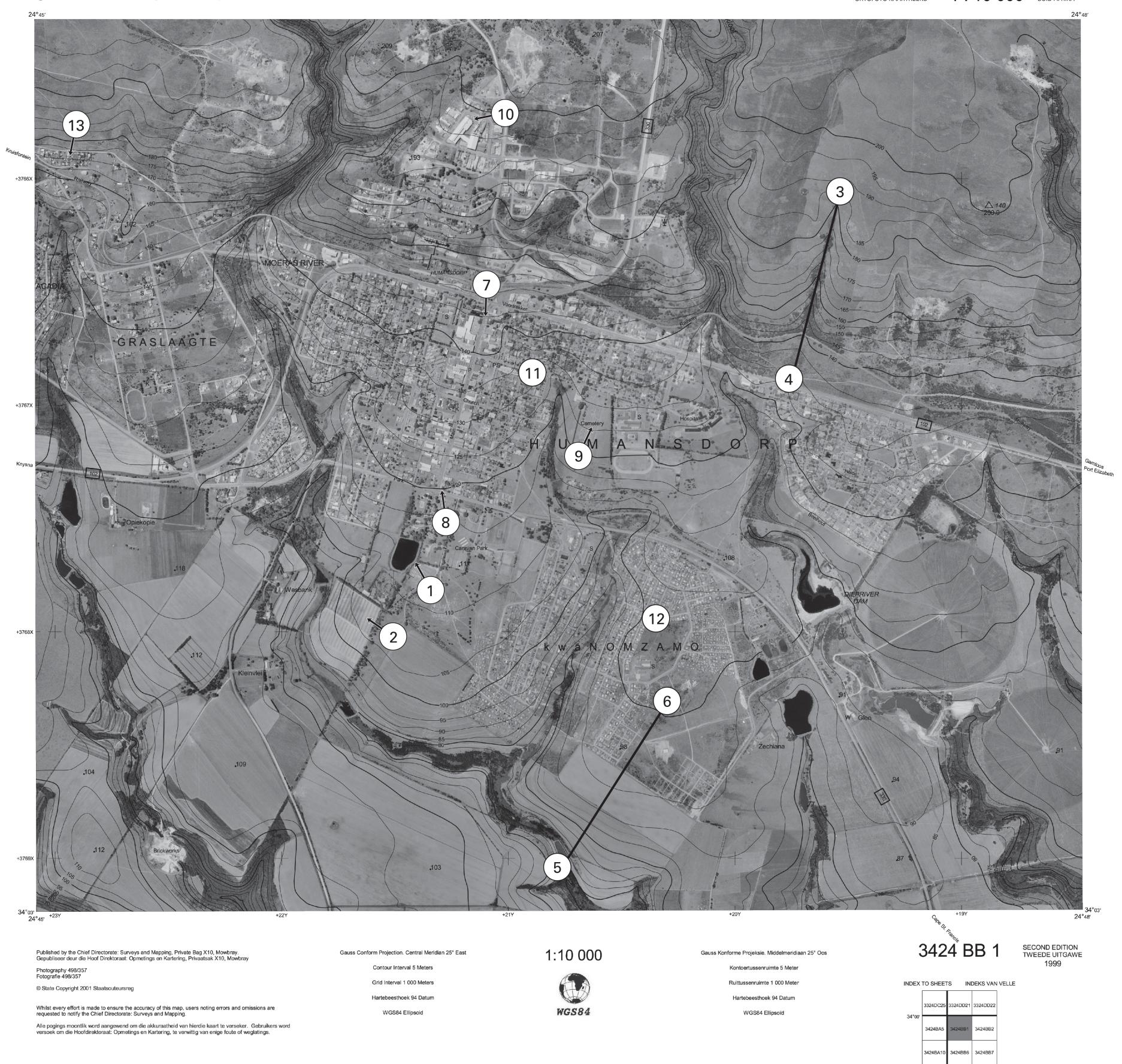
te verwittig van enige foute of weglatings.

8/8/12 12:54

3424BB HUMANSDORP DERDE UITGAWE 1999

3424 BB 1 HUMANSDORP

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