



rural development & land reform

Department:
Rural Development & Land Reform
REPUBLIC OF SOUTH AFRICA

Chief Directorate:
National Geo-spatial Information

Standard for the 1: 50 000 Topographical Map Series

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v2

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SECTION A
Preliminary Informative Elements

A 1 Document Control

Version and Amendment Schedule

Version No.	Version Date	Compiler	Description of Amendments
Draft	21 August 2007	Standards Committee	Document Created
v1	29 March 2010	S Kay S Aimes M Porter A Ringuist D Hanekom	Review process amendments
v2_draft1	05 July 2011	S Aimes S Kay	Review and updating standard to be aligned to the iTIS
v2_draft2	31 August 2011	S Aimes S Kay	Combined dimensions with topographical information
v2_draft3	11 November 2011	Standards Committee	Content changes and alignment to iTIS.
v2_draft4	23 March 2012	S Aimes S Kay W Kuhnert D Clarke	Senior Management Review Process
v2	28 March 2012	S Kay D Clarke	Senior Management Review Amendments and Standard Approval

Approval and Control Schedule

Version No.	Approved By	Designation	Signature	Date Approved	Copy Status
v1	Dr D.G. Clarke	Chief Director		26 March 2010	<i>Master Copy</i>
v2	Dr D.G. Clarke	Chief Director			<i>Master Copy</i>

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A 3 Foreword

This standard covers the requirements for the 1: 50 000 Topographical Map Series produced by the Chief Directorate: National Geo-spatial Information (CD: NGI), Department of Rural Development and Land Reform as part of the national map series. The CD: NGI is mandated by the Land Survey Act, Act 8 of 1997 to provide mapping that covers the extent of the Republic of South Africa.

This document was drafted using Cartographic Instruction 4 – Specification for South Africa 1:50 000 Topographical Series part 1 and part 2 as its basis together with current cartographic norms and practices applied by the CD:NGI. The 1: 50 000 Topographical Map Style Chart (unpublished) has been revised to include all features and map layout conventions employed by the CD: NGI. This document thus supersedes these documents, and forms the basis for future revision of its content and design.

An index reflecting the current editions of this national map series is updated and published annually.

Acknowledgement

This standard was revised by the following members of the Standards Committee:

Mariana French(Convenor)

Walter Kuhnert

Samantha James

Pearl Mentor

Mark McLachlan

Shaun Aimes (Quality Assurance - Staff Member)

Sissiel Kay (Quality Assurance - Staff Member)

A 4 Terms and Definitions

[Refer to Glossary](#)

A 5 Symbols and Abbreviations

[Refer to Glossary](#)

A 6 Introduction

A 6.1 General

Name of the Standard

The standard described in this document shall be known as the Standard for the 1: 50 000 Topographical Map Series

The shortened name, 1: 50 000 Scale Map Standard, may be used.

A 6.2 Scope and Purpose

The Standard for the 1: 50 000 Topographical Map Series comprises all the specifications required for cartographic production of a 1: 50 000 topographical map as required by the CD: NGI and its status is mandatory. This document excludes customised maps or maps that do not form part of the national map series.

A 6.3 Audience

The primary audience of this document is CD: NGI and contractors. The secondary audience of this document are map users.

A 6.4 Applicability

This document is applicable to all role players, activities and processes involved in the production and use of 1: 50 000 topographical maps of the national series within the CD: NGI.

A 6.5 Assumptions

It is assumed that the provisions of this document may be applied by users outside CD: NGI.

A 6.6 Normative References, other standards and related documents

- The document Recommended Practice for the Structure and Drafting of Standards and Related documents is used to guide the format and structure of this document.
- Refer to C 1 for document references.

A 6.7 Maintenance Authority

Maintenance

Maintenance of the Standard for the 1: 50 000 Topographical Map is the responsibility of the Division: Quality Assurance of CD: NGI. Changes to this Standard will be instructed by the Chief Director as improvements or amendments become necessary, or as required. Any request for amendments to this Standard may be submitted by any institution, body or individual to the Chief Director for consideration. All such requests and any other comments on the Standard must be addressed to:

Chief Director: National Geo-spatial Information
Private Bag X 10
Mowbray
7705

and be referenced as : Amendment - Standard for the 1: 50 000 Topographical Map Series

The Division: Quality Assurance shall maintain the provisions and structure of this document through amendment and revision activities.

A 6.8 Roles and Responsibilities

The roles and responsibilities of the main role players as it pertains to the drafting and maintenance of this document are stated below.

A 6.8.1 Division: Quality Assurance

- To maintain the provisions of this document.
- Keeping track of all amendments to this document
- Providing assistance and guidance to the Standards Development Committees and CD:NGI Management in interpreting the provisions of this document
- Provisionally approving a proposed revision of this standard with respect to its structure and format.
- Ensuring that the use and purpose of this document is communicated effectively.

A 6.8.2 Standards Development Committee – Standard for 1: 50 000 Topographical Map Series

- To draft revised specifications to the provisions of this document
- To make recommendations on the update and amendment of the provisions of this document.
- Refer to the relevant section in the Terms of Reference of the Standards Development Committee for more details in this regard.

A 6.8.3 Geomatics Manager: Quality Assurance

- Evaluate proposed amendments and revisions of this Standard.
- Provisionally approving proposed amendments to this Standard.
- Refer to the relevant section in the Terms of Reference pertaining to the Geomatics Manager: Quality Assurance for more details in this regard.

A 6.8.4 CD: NGI Senior Management

- To provide inputs into and recommend approval of this Standard.

A 6.8.5 Chief Director: NGI

- To approve this Standard.
- To authorise revision of this Standard.

SECTION B
Normative Elements

B 1 Topographical Map Series Requirements

B 1.1 General

The 1:50 000 Topographical Map Series consists of 1912 map sheets providing full coverage of South Africa.

- (a) The extent of a 1:50 000 scale map shall be 15' latitude by 15' longitude. Exceptions occur when the shape of the terrain is such that it is cost effective to combine two or more portions of adjoining maps to form a single map entity. This occurs mostly along the coastline and international borders. Sheet lines of these maps therefore deviate from the norm. The exceptions are listed in Schedule of Map Exceptions for all National Map Series.
- (b) Each map of the 1:50 000 Topographical Map Series shall be given a specific number and name.
- (c) The number is determined from the degree square breakdown adopted as the Standard for the Map Reference System as depicted in Figure B 1.1.
- (d) The sheet name shall be determined by the most prominent feature located within the extent of the map sheet, giving preference to human-made features above natural features. Examples of these include a settlement, homestead or railway station that appears on the face of the map, the exception being large cities or towns that extend across several map sheets e.g. Kimberley East, Kimberley West.
- (e) Map sheets having the same sheet name shall be further defined by the name of the province wherein it is found e.g. 3125AC Middelburg (Eastern Cape), 2529CD Middelburg (Mpumalanga). Such duplication of names should preferably be avoided.

2830CB POMEROY (where "POMEROY" identifies a settlement on this map)

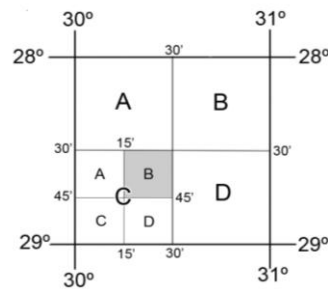


Figure B 1.1 – 1:50 000 Topographical Map Series Name and Number

- (f) All 1: 50 000 topographic maps shall be projected using the Gauss Conform Projection. The central meridian of the projected map shall be the closest odd (integer) meridian.
- (g) All maps produced by the Chief Directorate shall be referenced to the Hartebeesthoek94 Datum (WGS84 ellipsoid).

B 1.2 Accuracy

B 1.2.1 Accuracy for paper copy

- (a) The horizontal positional accuracy of all coordinated points, which include trigonometrical beacons, graticule intersections and grid lines depicted on the map shall not exceed 25 metre (0.5 mm at map scale) relative to the national control survey network, at the 95% confidence level.
- (b) The horizontal positional accuracy of all remaining topographic features depicted on the map shall not exceed 40 metre (0.8 mm at map scale) relative to the national control survey network, at the 95% confidence level
- (c) The vertical elevation accuracy of all identifiable points shall not exceed half a contour interval, at the 95% confidence level.
- (d) All features depicted shall be correctly classified at the 95% confidence level.

B 1.2.2 Accuracy for digital copy

- (a) The horizontal positional accuracy of all coordinated points, which include trigonometrical beacons, graticule intersections and grid lines depicted on the map, shall not exceed 4 metre relative to the national control survey network, at the 95% confidence level.
- (b) The horizontal positional accuracy of all remaining topographic features depicted on the map (image) shall not exceed 35 metre, relative to the national control survey network, at the 95% confidence level.
- (c) The vertical elevation accuracy of all identifiable points shall not exceed half a contour interval, at the 95% confidence level.
- (d) All features depicted shall be correctly classified at the 95% confidence level.

B 1.3 Language and Naming

- (a) All references and surrounding text (legends) shall be shown in English and Afrikaans with English taking precedence as the first language.
- (b) English shall take precedence for all descriptive terms.
- (c) All feature names, formally approved by the Minister responsible for geographical names, shall be annotated as such using the language as approved and shall be deemed as approved names.
- (d) Names that have not been officially approved shall be shown in a distinctive typeface.

B 1.4 Data Sources

B 1.4.1 Names

- (a) All approved names shall be sourced from the division/s responsible for acquiring ancillary data for use within the production processes of CD: NGI.
- (b) All unapproved names shall be sourced from the division/s stated in B 1.4.1 (a).

B 1.4.2 Features

- (a) All topographical features listed in section B 3 shall be sourced from the iTIS database.
- (b) All administrative and cadastral boundaries shall be sourced from the division/s responsible for acquiring ancillary data for use within the production processes of CD: NGI.
- (c) CD: NGI Precise Level Bench Marks shall be sourced from the division/s responsible for maintaining the National Control Survey Network.
- (d) The following features are cartographically generated features: Oceans, Route Symbols and Contour Value Labels.

B 1.5 Elevation

- (a) The contour interval for maps produced using this standard shall be 20 metres.
- (b) Trigonometrical beacon heights shall be reduced to ground level and rounded off to one decimal of a metre.
- (c) Spot heights shall be rounded off to the nearest metre.
- (d) All heights shall be given above Mean Sea Level.

B 1.6 Nomenclature

- (a) The spelling of names shall be in accordance with the accepted practice adopted by CD: NGI i.e. the spelling of names shall be that approved by the South African Geographic Names Council or such other authoritative source.
- (b) Approved and unapproved names shall be shown in a distinctive type style according to the provisions of C 2 of this standard.
- (c) Descriptive terms shall be used, where applicable, in accordance with the Style Chart (see C 3).

B 2 Map Sheet Layout

The map sheet layout for the 1:50 000 topographical map shall follow the provisions listed within this section. The complete map sheet layout shall be in accordance with the Style Chart contained in C 3.

B 2.1 Map Title and Metadata

Top left:

- Map Sheet reference and Map Sheet Name e.g. 2830CB POMEROY

Top right:

- Scale and nationality statement

Bottom centre:

- Scale bar depicted in metres and kilometres
- Index to adjoining sheets
- Elevation data statement
- Contour interval.
- Spatial Reference System (including projection, central meridian, datum and ellipsoid)
- WGS84 logo

Bottom left:

- Publication notes and copyright statement
- Printers Note
- Acknowledgement notes
- First half of reference (legend)
- Cadastral note
- Unapproved names statement

Bottom right:

- Second half of reference (legend)
- Cadastral note
- Sheet number and name
- Map Edition
- Date of Edition

Between reference (legend) and index to adjoining sheets: (left side)

- Magnetic declination information with diagram (indicating True North and Magnetic North)
- Disclaimer statement

Between reference (legend) and index to adjoining sheets: (right side)

- South African Co-ordinate System statement
- Disclaimer statement

B 2.2 Magnetic information

- (a) Magnetic data, obtained from Hermanus Magnetic Observatory, shall be shown on the map.
- (b) Magnetic data shall include the Mean magnetic declination and its relevant year, and the Mean Annual Change and its relevant period of change.

B 2.3 South African Co-ordinate System Grid information

The grid lines of the South African Co-ordinate System shall be indicated in the map margin by short black ticks with co-ordinate values shown in blue at 10 000 metre intervals. An example of this is depicted in the Style Chart contained in C 3.

B 3 Topographical Information and Dimensions of Point, Line and Area Symbols

Topographical Information to be shown

The topographical features to be shown are listed below with explanations, where necessary, to avoid any possible ambiguity in interpretation. Features shall be symbolized according to its relevant comment and without annotation as far as possible, but exceptions could occur where annotations might be necessary.

Please refer to the Style Chart (contained in C 3 of this document) for graphic depiction of the various features.

Colours will be depicted in terms of the Printing Standards (QLAS.SD.6_PRINT).

Unless otherwise stated all point symbols must be centred over the true position of the feature.

The features have been divided into the following categories:

Feature Classes
ADMN BOUNDARIES
ADMN CADSTRE
CULT BARRIERS
CULT EDUCATIONAL
CULT INDUSTRIAL
CULT PUBLIC
CULT RECREATIONAL
CULT UTILITIES
GEOD BENCH MARKS
HYDR AREAS
HYDR COASTAL AREAS
HYDR COASTAL LINES
HYDR LINES
HYDR POINTS
HYPS ELEVATION POINTS
HYPS ELEVATION LINES
LCLU LANDCOVER
LCLU LANDUSE
PHYS LANDFORM ARTIFICIAL
PHYS LANDFORM NATURAL
TRANSPORT CROSSING
TRANSPORT FACILITIES
TRANSPORT LINES OTHERS
TRANSPORT RAILWAY LINES
TRANSPORT ROADS

B 3.1 ADMN BOUNDARIES

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
International Boundaries	2	Shall be shown.	Pecked line	Colour	Black
				Dash width	0.30mm
				Length of dash	4.0mm
				Dot	0.36mm
				No of dots	Three (3) spaced dots between the dashes
				Length of gap	4.0mm
			Area	Band width	1.0mm
International Boundaries (in Index Box)	2	Shall be shown.	Pecked line	Band colour	21 (Red)
				Colour	Black
				Dash width	0.020mm
				Length of dash	2.5mm
				Dot	0.25mm
				Length of gap	2.5mm
				No of dots	Three (3) spaced dots between the dashes
State Forest	5	Shall be shown and the area named where names are available.	Line	Colour	Black
			Area	Line width	0.10mm
				Band width	1.5mm
				Band colour	22 (Green)
				Size	True shape/ as compiled
Provincial Boundaries	14	Shall be shown.	Pecked line	Colour	Black
				Dash	0.30mm
				Length of dash	4.0mm
				Dot	0.36mm
				Length of gap	3.0mm
				No of dots	Two (2) spaced dots between the dashes

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Provincial Boundaries (in Index Box)	14	Shall be shown.	Pecked line	Colour	Black
				Dash	0.20mm
				Length of dash	2.5mm
				Dot	0.25mm
				Length of gap	2.0mm
				No of dots	Two (2) spaced dots between the dashes
Conservation	4/6/8/12/13/16	Shall be shown and the area named where names are available.	Line	Colour	Black
			Area	Line width	0.10mm
				Band width	1.5mm
				Band colour	22 (Green)

B 3.2 ADMN CADASTRE

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Cadastral Subdivision	21/22	All original farm boundaries shall be shown and the area named and/or numbered.	Line	Width	0.46mm
				Colour	4 (Black)

Cadastral Information

All original farm boundaries shall be shown and named and/or numbered.

B 3.3 CULT BARRIERS

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Anti Erosion Wall	82	Shall be shown.	Line	Width	0.23mm
				Colour	Black
Trees	84	Shall be shown.	Pictorial point or line symbols	Colour	10 (Green)
				Size	True shape/ as compiled
Breakwater	85	Shall be shown.	Line	Width	0.10mm
				Colour	Black
Cutline	86	Shall be shown and annotated.	Pecked line	Width	0.15mm
				Colour	Black
				Length of dash	1.0mm
				Length of gap	0.5mm
				Annotation	Black typeface
Dam Wall	87	Shall be shown.	Line	Colour	Black
				Average (farm) dam walls	
				Width	0.23mm
				Dam walls of larger and more important dams	
				Width	0.76mm
Fence	88	Topographically significant fences shall be shown.	Line	Width	0.076mm
				Colour	Black
Fire Break	89	Shall be shown and annotated.	Pecked line	Width	0.10mm
				Colour	10 (Green)
				Length of dash	1.5mm
				Length of gap	0.5mm
				Annotation	Black typeface
Wall	90	Shall be shown.	Line	Width	0.23mm (can be depicted in a wider gauge for more prominent features)
				Colour	Black
Weir	91	Shall be shown and annotated.	Line	Width	0.15mm
				Length of tick	Minimum 1.5mm
				Annotation	Black typeface
				Colour	Black

B 3.4 CULT EDUCATIONAL

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
College	96	Shall be shown and annotated.	Complex	Point Size	0.51mm x 0.51mm
				Area Size	True shape/ as compiled
				Colour	Black
				Annotation	Black typeface
School	99	Shall be shown and annotated.	Complex	Point Size	0.51mm x 0.51mm
				Area Size	True shape/ as compiled
				Colour	Black
				Annotation	Black typeface
University of Technology	100	Shall be shown and annotated.	Complex	Point Size	0.51mm x 0.51mm
				Area Size	True shape/ as compiled
				Colour	Black
				Annotation	Black typeface
University	102	Shall be shown and annotated.	Complex	Point Size	0.51mm x 0.51mm
				Area Size	True shape/ as compiled
				Colour	Black
				Annotation	Black typeface

B 3.5 CULT INDUSTRIAL

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Conveyor Belt	106	Shall be shown and annotated.	Line	Width	0.23mm
				Colour	Black
				Annotation	Black typeface
Factory	103	Shall be shown and annotated.	Area	Size	True shape/ as compiled
				Colour	Black
				Annotation	Black typeface
Salt Works	107	Shall be shown and annotated.	Area	Width	0.10mm
				Colour	5 (Blue)
				Tick lines	0.10mm (staggered, long, short)
Saw Mill	105	Shall be shown and annotated.	Area	Size	True shape/ as compiled
				Colour	Black
Silo	108	Shall be shown and annotated.	Point	Size	0.45mm x 0.45mm
				Colour	Black
				Annotation	Black typeface
Storage Tank	194	Shall be shown and annotated.	Area	Width	0.10mm
				Size	True shape/ as compiled
				Colour	Black
				Tick lines	0.10mm
Fish Farm	199	Shall be shown and annotated.	Area	Width	0.10mm
				Size	True shape/ as compiled
				Colour	Black

B 3.6 CULT PUBLIC

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Bird Sanctuary	479	Shall be shown and annotated.	Line	Colour	Black
				Outline width	0.10mm
			Area	Band width	1.5mm
				Band colour	22 (Green)
				Size	True shape/ as compiled
Botanical Garden	115	Shall be shown and annotated.	Area	Band width	1.5mm
				Band colour	22 (Green)
				Size	True shape/ as compiled
Cemetery	116	Shall be shown and annotated.	Pictorial area	Outline width	0.10mm
				Outline type	Solid line
				Colour	Black
				Filling	Pictorial filling
				Size	True shape/ as compiled
House	114/128/136/150	Shall be shown.	Point	Colour	Black
				Size	0.51mm x 0.51mm
Clinic, Hotel	118,127	Shall be shown and annotated.	Complex	Point Size	0.51mm x 0.51mm
				Area Size	True shape/ as compiled
				Colour	Black
				Annotation	Black typeface
Place of Worship, Police Station	139,141	Shall be shown and annotated.	Complex	Point Size	0.51mm x 0.51mm
				Area Size	True shape/ as compiled
				Colour	Black
				Annotation	Black typeface
Postal Office, Shop Store	142,144	Shall be shown and annotated.	Complex	Point Size	0.51mm x 0.51mm
				Area Size	True shape/ as compiled
				Colour	Black
				Annotation	Black typeface

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Hospital, Prison	125, 117	Shall be shown and annotated.	Complex	Point Size	0.51mm x 0.51mm
				Area Size	True shape/ as compiled
				Colour	Black
				Annotation	Black typeface
Large Buildings	114/136/150	Shall be shown.	Area	Size	True shape/ as compiled
				Colour	Black
				Annotated as necessary	
Legislative Buildings, Military Base	130,133	Shall be shown.	Area	Colour	Black
				Size	True shape/ as compiled
Shopping Centre	146	Shall be shown.	Area	Size	True shape/ as compiled
				Colour	Black
Grave	476	Shall be shown.	Pictorial point	Symbol Size	1.2mm x 1.0mm
				Colour	Black
				Base representing the true position	
Ground Sign	122	Shall be shown.	Point	Outline width	0.076
				Symbol Size	1.5mm x 1.5mm
				Outline colour	Black
Battlefield	123	Shall be shown where they can be located and shall be named where names are available.	Pictorial point	Size	1.95mm x 0.90mm
				Colour	Black
				Position	Centre of the base representing the true position
				Name	Black typeface and according to the GNSC gazette
Mission Station	134	Individual buildings comprising Mission Stations shall be shown and named	Complex	Point Size	0.51mm x 0.51mm
				Area Size	True shape/ as compiled
				Colour	Black

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Monument	135	Monuments shall be shown and named where they have been proclaimed and gazetted.	Pictorial point	Size	0.8mm x 1.5mm
				Colour	Black
				Position	Centre of the base representing the true position
				Name	Black typeface and according to the GNSC gazette
Refuse Dump	143	Shall be shown and annotated.	Area	Outline width	0.10mm
				Length of Tick	1mm
				Area Size	True shape/ as compiled
				Outline colour	Black
				Annotation	Black typeface
Ruin	124	Shall be shown	Pictorial point	Width	0.10mm
				Colour	Black
				Position	left corner of the base representing the true position
				Length of arms	1.0mm
Shipwreck	145	Shall be shown	Pictorial point	Size	2.81mm x 1.85mm
				Colour	Black
Tree	149	Shall be shown.	Pictorial point	Size	1mm x 1mm
				Colour	10 (Green)
Watchtower / Lookout Tower	152	Shall be shown and annotated.	Point	Size	0.51mm x 0.51mm
				Colour	Black
Zoological Facility	153	Shall be shown and annotated.	Area	Outline width	0.076mm
				Area Size	True shape/ as compiled
				Outline colour	Black
				Annotation	Black typeface

B 3.7 CULT RECREATIONAL

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Caravan Park	156	Shall be shown and annotated or named if the name is available.	Area	Outline type	Solid line border
				Outline width	0.10mm
				Colour	Black
				Filling	12 (Green)
				Annotation	Black typeface
Drive in Theatre	157	Shall be shown and annotated.	Area	Outline width	0.10mm
				Outline colour	Black
				Annotation	Black typeface
Garden	478	Shall be shown and annotated.	Area	Outline type	Solid line border
				Outline width	0.10mm
				Outline Colour	Green
				Filling	12 (Green)
Golf Course	160/477	Where possible, internal detail shall be shown. These features shall be annotated or named where the name is available.	Area	Outline type	Solid line border
				Outline width	0.10mm
				Colour	Green
				Filling	12 (Green)
Hiking Trail	392	Shall be shown and annotated.	Pecked line	Width	0.15mm
				Colour	Black
				Length of dash	1.0mm
				Length of gap	0.5mm
				Annotation	Black typeface
Holiday Resort	161	Shall be shown and annotated.	Area	Width	0.076mm
				Colour	Black
				Annotation	Black typeface

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Horse-race Course	171	Shall be shown and annotated.	Line	Width	0.10mm
				Colour	Black
				Annotation	Black typeface
Motor Sport Track	172	Shall be shown and annotated.	Line	Width	0.10mm
				Colour	Black
				Annotation	Black typeface
Recreation Area , Urban Park	155/163/166	Shall be shown and annotated.	Area	Outline type	Solid line border
				Outline width	0.076mm
				Outline Colour	Green
				Filling	12 (Green)
Shooting / Rifle Range	165	Shall be shown and annotated.	Area	Width	0.10mm
				Colour	Black
				Annotation	Black typeface
Stadium	167	Shall be shown and annotated.	Area	Outline type	Solid outline
				Outline width	0.10mm
				Colour	Green
				Filling	12 (Green)
				Annotation	Black typeface
Swimming Pool	168	Shall be shown	Area	Outline type	Solid outline
				Outline width	0.10mm
				Colour	5 (Blue)
				Filling	6 (Blue)

B 3.8 CULT UTILITIES

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Cooling Tower	242	Shall be shown and annotated.	Point	Size	0.8mm
				Colour	Black
Microwave Tower, Telecommunication Tower	175/458	Shall be shown.	Pictorial Point	Width / Size	1.0mm x 2.00mm
				Position	Centre of the base representing the true position
				Colour	Black
Power Lines, single or multiple	174	Shall be shown.	Line	Width	0.10mm
				Colour	Black
				Dots	Spaced dots along the line. When there are multiple power lines the dots are omitted on the internal lines
				Size of dots	0.46mm
				Spacing of dots	0.4mm (To be adjusted at bends etc)
Power Station	176	Shall be shown	Area	Outline type	Solid outline
				Outline width	0.076mm
				Outline colour	Black

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Sewerage Works	207	Shall be shown and annotated	Area	Large Reservoirs	
				Outline type	Solid outline
				Outline width	0.10mm – 0.15mm
				Outline colour	Black
				Filling	6 (Blue)
				Annotation	Black typeface and according to category e.g. "Water Purification Plant", "Sewerage Works", etc.
Sewerage Pipe	450/1000	Shall be shown and annotated	Line	Outline type	Solid outline
				Outline width	0.10mm
				Outline colour	5 (Blue)
				Annotation	5 (Blue)
Purification Plant	210	Shall be shown and annotated	Area	Outline type	Solid outline
				Outline width	0.10mm
				Outline colour	Black
				Filling	6 (Blue)
				Annotation	Black typeface and according to category e.g. "Water Purification Plant", "Sewerage Works", etc.

B 3.9 GEOD BENCH MARKS

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Bench Marks	182	Shall be shown. They will, however, not be shown in built-up or congested areas. The heights shall be shown to the nearest metre. Only one of a group of Bench Marks at a section terminal shall be shown and labelled.	Pictorial point	Width	0.10mm
				Arm of Arrow	1.0mm
				Colour	Black
				Size	1.0mm x 1.0mm
				Alignment	Aligned to the road. Freestanding bench marks shall be aligned to the map base line. Bench marks shall not be shown in built-up areas. The point of the arrow symbol shall indicate the true position.
Trig Beacon	193	Shall be shown. They will, however, not be shown in built-up or congested areas. The heights shall be shown to the nearest metre.	Pictorial point	Width	0.15mm
				Colour	Black
				Size	1.46mm x 1.64mm
				Position	Centre of the triangle
International Beacon	-	Shall be shown.	Pictorial point	Width	0.10mm
				Colour	Black
				Size	1.0mm x 1.0mm

B 3.10 HYDR AREAS

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Dam	196	Shall be shown and named where names are available.	Area	Outline type	Solid line border
				Outline width	0.10mm
				Outline Colour	5 (Blue)
				Filling	6 (Blue)
Lake	201	Shall be shown and annotated	Area	Outline type	Solid line border
				Outline width	0.10mm
				Outline Colour	5 (Blue)
				Filling	6 (Blue)
				Name	Blue typeface
Marsh, Swamp and Vlei	202, 208	Shall be shown and named where names are available.	Pictorial area	Filling	16 (Blue)
Mudflat	203	Shall be shown	Pictorial area	Filling	7 (Brown)
Large Reservoir	462/463/209	Shall be shown and annotated	Area	Outline type	Solid outline
				Outline width	0.64mm
				Outline colour	Black
				Filling	6 (Blue)
				Annotation	Black typeface and according to category e.g. "Water Purification Plant", "Sewerage Works", etc.

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Dry Pan	197	Shall be shown and named where names are available. Shall be shown and named where names are available. Shall be shown and named where names are available.	Area	Outline type	Pecked
				Outline colour	5 (Blue)
				Outline width	0.10mm
				Filling	8 (Brown)
Non-perennial Pan	481	Shall be shown and named where names are available. Shall be shown and named where names are available.	Area	Outline type	Pecked line border
				Outline colour	5 (Blue)
				Outline width	0.10mm
				Length of dash	4.0mm
				Filling	6 (Blue) pictorial
Perennial Pan	465	Shall be shown and named where names are available. Shall be shown and named where names are available.	Area	Outline type	Solid line border
				Outline colour	5 (Blue)
				Outline width	0.10mm
				Filling	6 (Blue)

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Dry Water Course	198	Shall be shown.	Area	Outline type	Pecked line border
				Outline colour	5 (Blue)
				Outline width	0.10mm
				Length of dash	4.0mm
				Filling	8 (Brown) pictorial
Flood banks along rivers	200	Shall be shown	Area	Outline type	Pecked line border
				Outline colour	5 (Blue)
				Outline width	0.10mm
				Length of dash	2.0mm
				Filling	6 (Blue) pictorial
Non-perennial River	474	Shall be shown and annotated where names are available.	Area	Outline type	Pecked line border
				Outline colour	5 (Blue)
				Outline width	0.10mm
				Length of dash	4.0mm
				Filling	6 (Blue) pictorial
Perennial River	475	Shall be shown and annotated where names are available.	Area	Outline type	Solid line border
				Outline colour	5 (Blue)
				Outline width	0.10mm
				Filling	6 (Blue)
Pool	464	Shall be shown and annotated.	Area	Outline type	Solid line border
				Outline colour	5 (Blue)
				Outline width	0.10mm
				Filling	6 (Blue)
				Name	Blue typeface

B 3.11 HYDR COASTAL AREAS

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Lagoon	214	Shall be shown and annotated.	Area	Outline type	Solid line border
				Outline colour	5 (Blue)
				Outline width	0.10mm
				Filling	6 (Blue)
				Name	Blue typeface
Tidal Pool	216	Shall be shown and annotated.	Area	Outline type	Solid outline
				Outline width	0.64mm
				Colour	Black
				Filling	6 (Blue)
				Annotation	Blue typeface
Ocean	-	Shall be shown and annotated.	Area	Filling	6 (Blue)
				Name	Blue typeface

B 3.12 HYDR COASTAL LINES

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Bay	1001	Shall be annotated where names are available.	Line	Outline type	Solid line border
				Outline colour	5 (Blue)
				Outline width	0.10mm
Coastline	218	Shall be shown.	Line	Width	0.10mm
				Colour	5 (Blue)
				On face of map and in index	

B 3.13 HYDR LINES

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Aqueduct	222	Shall be shown and annotated.	Line	Width	0.10mm
				Colour	5 (Blue)
				Annotation	Blue typeface
Canal	227	Shall be shown and annotated. Shall be shown and annotated.	Line	Width	0.10mm
				Colour	5 (Blue)
				Annotation	Blue typeface

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Furrow	226	Shall be shown and annotated.	Line	Width	0.10mm
				Colour	5 (Blue)
				Annotation	Blue typeface
Siphon	234	Shall be shown and annotated.	Line	Outline type	Pecked line border
				Width	0.10mm
				Colour	5 (Blue)
				Size of tick	1.5mm
				Annotation	Blue typeface
Rapid	232	Shall be shown and annotated or named where names are available.	Line	Width	0.10mm
				Colour	5 (Blue)
				Ticks on single line rivers	1.0mm
				Annotation	Blue typeface
Waterfall	238	Shall be shown and annotated or named where names are available.	Line	Width	0.10mm
				Colour	5 (Blue)
				Ticks on single line rivers	1.0mm
				Annotation	Blue typeface
Non-Perennial River	472	Shall be shown and annotated or named where names are available.	Line	Width	0.10mm
				Colour	5 (Blue)
				Length of Ticks	3.5mm
				Annotation	Blue typeface
Perennial River	473	Shall be shown and annotated or named where names are available.	Line	Width	0.10mm
				Colour	5 (Blue)
				Annotation	Blue typeface

B 4.14 HYDR POINTS

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Hot Spring	243	Shall be shown and annotated.	Point	Size	0.64mm
				Colour	5 (Blue)
				Annotation	Blue typeface
Fountain, Spring	245	Shall be shown and annotated.	Point	Size	0.64mm
				Colour	5 (Blue)
				Annotation	Blue typeface
Reservoir	466	Shall be shown and annotated.	Point	Size	0.64mm
				Colour	5 (Blue)
				Annotation	Blue typeface
Water Tower	247	Shall be shown and annotated.	Point	Size	0.64mm
				Colour	5 (Blue)
				Annotation	Blue typeface
Wind Pump	249	Shall be shown.	Pictorial point	Size	0.45mm x 1.46mm
				Colour	Black
				Position	Centre of the base representing the true position

B 3.15 HYPSELEVATION POINTS

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Spot Height	255	Shall be shown and labelled.	Point	Size	0.25mm
				Colour	Black
				Annotation	Black typeface

B 3.16 HYPSELEVATION LINES

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Contours	250	Contours shall be shown and shall be selectively labelled.	Line	Contours at 20 metre intervals	
				Line width	0.076mm
				Index contours 100 metre intervals	
				Line width	0.15mm
Depression Contours	251	Contours shall be shown and shall be selectively labelled.	Line	Colour	7 (Brown)
				Contours at 20 metre intervals	
				Line width	0.076mm
				Index contours 100 metre intervals	
				Line width	0.15mm
				Colour	7 (Brown)
				Ticks	Spaced and facing the direction of the slope
				Length of ticks	0.5mm
				Length of ticks	2.5mm

B 3.17 LCLU LANDCOVER

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Cultivated Land	272	Shall be shown.	Pictorial area	Outline	0.076mm
				Outline Colour	10 (Green)
				Filling	12 (Green) pictorial
Woodland	263	Shall be shown and annotated where names are available	Area	Filling	12 (Green)
Sandy Area and Beach	271	Shall be shown and annotated where names are available	Area	Filling	8 (Brown)

B 3.18 LCLU LANDUSE

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Orchard / Vineyard	287	Shall be shown.	Pictorial area	Outline type	Solid outline
				Outline width	0.076mm
				Colour	10 (Green)
				Filling	10 (Green) pictorial
Plantation	288	Shall be shown and annotated where names are available	Area	Filling	12 (Green)
Residential Landuse	278	Shall be shown	Area	High Urban Density	
				Filling	20 (Black)
				Outline width	0.10mm
				Outline Colour	Black
				Low Urban Density	
				Filling	3 (Black)
				Outline width	0.10mm
				Outline Colour	Black

B 3.19 PHYS LANDFORM ARTIFICIAL

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Cutting	289	Shall be shown	Area	Border line	0.076mm
				Ticks	Spaced along the length of the feature
				Colour	Black
				Ticks line width	0.15mm
Diggings, Prospecting Trenches	471	These shall be shown and annotated except Excavations, which shall not be annotated.	Area	Colour	Black
				Dots	Spaced dots showing the extent of the features
				Dot diameter	0.18mm
				Spacing of dots	0.6mm
				Annotation	Black typeface

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Embankment	291	Shall be shown	Area	Colour	Black
				Ticks	Spaced along the length of the feature
				Ticks line width	0.15mm
Excavation , Open Cast Mine	292, 295	Shall be shown and annotated. Excavations shall not be annotated.	Area	Line width	0.076mm
				Colour	Black
				Ticks	Spaced along the length of the feature, facing the direction of the slope
				Ticks colour	Black
				Ticks line width	0.15mm
				Length of ticks	2.0mm
				Annotation	Black typeface
Mine Dump	293	Shall be shown	Area	Colour	Black
				Length of ticks	Spaced lines, varying in length, according to the slopes
				Colour of ticks	Black
				Width of ticks	0.10mm
Mine Shaft	299	Shall be shown and annotated.	Point	Size	0.51mm x 0.51mm
				Annotation	Black typeface
Slimes Dam	297	Shall be shown and annotated.	Area	Width	0.10mm
				Colour	Black
				Extents	Inner and outer extents, indicating the sides and slopes
				Annotation	Black typeface

B 3.20 PHYS LANDFORM NATURAL

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Boulder / Coastal Rock	303	Shall be shown and annotated where names are available	Pictorial line	Outline colour	Black
				Outline width	0.10mm
Cave	304	Shall be shown and annotated	Pictorial point	Colour	Black
				Line width	0.10mm
				Symbol size	2.34mm x 1.20mm
				Annotation	Black typeface
Dune	308	Shall be shown and named where names are available.	Pictorial area	Filling	7 (Brown) pictorial
Eroded Area	309	Shall be shown.	Area	Outline width	0.076mm
				Outline type	Solid line border
				Outline colour	7 (Brown)
				Filling	8 (Brown)
				Ticks	Spaced and facing the direction of the slope
				Ticks line width	0.15mm
				Ticks colour	Brown
				Ticks length	Maximum 1.0mm
Island in Inland Water	312	Shall be shown	Area	As depicted by the surrounding water	
				Outline Colour	5 (Blue)
Rocky Outcrop	319	Shall be shown.	Pictorial line	Colour	7 (Brown)
Sandbank	320	Shall be shown.	Area	Filling	8 (Brown)
Sinkhole	323	Shall be shown	Area	Colour	Black
				Dots	Spaced dots showing the extent of the features
				Dot diameter	0.18mm
				Spacing of dots	0.6mm
				Annotation	Black typeface

B 3.21 TRAN CROSSING

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Bridge	343 / 339 / 347 / 345	Shall be shown.	Line	Outline width	0.10mm
				Colour	Black
				Alignment	Aligned to the direction of the underlying feature and shall be shown on roads, tracks, hiking trails, railways and as freestanding features.
Tunnels	349	Shall be shown.	Point	Width	0.10mm
				Colour	Black
				Alignment	Aligned to the direction of the underlying feature and shall be shown on roads, tracks, railways and as freestanding features.
				Size	0.5mm x 1.3mm

B 3.22 TRAN FACILITIES

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Aerodrome	350	The perimeter, runways and structures within Airports and Aerodromes shall be shown and named. Landing Strips shall be shown and annotated	Area	Border line width	0.10mm
				Colour	Black
				Annotation	Black typeface
				Runways and buildings shall be shown	
Airport	352	The perimeter, runways and structures within Airports and Aerodromes shall be shown and named. Landing Strips shall be shown and annotated.	Area	Border line width	0.10mm
				Colour	Black
				Annotation	Black typeface
				Runways and buildings shall be shown	
Airfield	351	Shall be shown and annotated.	Area	Border line width	0.10mm
				Colour	Black
				Annotation	Black typeface
Landing Strip	363	The perimeter, runways and structures within Airports and Aerodromes shall be shown and named. Landing Strips shall be shown and annotated	Line	Border line width	0.10mm
				Colour	Black
				Annotation	Black typeface
Lighthouse	365	Lighthouse shall be shown and they shall be named.	Pictorial point	Size	2.4mm x 2.4mm
				Colour	14 (Red)
Marine Beacons	365	Marine light and Marine Beacon shall be shown.	Pictorial point	Size	1.4mm x 2.0mm
				Colour	Black
Magnetic Station	186	Shall be shown and annotated	Pictorial point	Square	0.10mm
				Dot Size in centre	1.1mm x 1.1mm
				Colour	Black
Pier	367	Shall be shown	Line	Width	1.0mm
				Colour	Black

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Large Station	368	Shall be shown and annotated	Line	The centre of the symbol serves as a block-out and shall be annotated	
				Outline width	0.10mm
				Outline colour	Black
				Size	As compiled
Station	368	Shall be shown and annotated	Point	The centre of the symbol serves as a block-out and shall be annotated	
				Outline width	0.10mm
				Outline colour	Black
				Size	1.5mm x 1.0mm
Large Station building	368	Shall be shown and annotated	Area	The centre of the symbol serves as a block-out and shall be annotated	
				Outline width	0.10mm
				Outline colour	Black
				Size	As compiled
Toll Plaza/ Gate on road	370	Shall be shown and annotated	Area	Size	As compiled
				Outline width	0.10mm
				Colour	Black
				Annotation	Black typeface
Harbour	360	Shown and annotated.	Line	Outline width	0.10mm
				Outline colour	Black
				Size	As compiled

B 3.23 TRAN LINES OTHERS

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Aerial Cableway	372	Shown and annotated.	Line	Width	0.10mm
				Colour	Black
				Diameter of circles	0.6mm
				Spacing of circles	4.0mm
				Annotation	Black typeface

B 3.24 TRAN RAILWAY LINES

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Standard Railway	387	Shall be shown.	Line	Width	0.51mm
				Colour	Black
Other Railway	386	Shall be shown and annotated accordingly.	Line	Width	0.30mm
				Colour	Black
				Annotation	Where necessary
Railway under construction	387	Shall be shown and annotated accordingly.	Pecked line	Width	The thickness of the symbol shall be the same as the classified railway after completion
				Colour	Black
				Length of dash	4.0mm
				Length of gap	1.5mm
				Annotation	Black typeface
Old Rail Route	387	Shall be shown and annotated accordingly.	Pecked line	Width	0.10mm
				Colour	Black
				Length of dash	3.0mm
				Length of gap	1.0mm
				Annotation	Black typeface
Marshalling Lines (internal tracks)	385	Shall be shown.	Line	Width	0.10mm
				Colour	Black

Destination Information

Destinations - shall be shown in the margin aligned to:

- (a) All standard and narrow gauge railways,
- (b) The destination name shall refer to the nearest place of importance, and the distance to the nearest kilometre shall be given

B 3.25 TRAN ROADS

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
National Freeway	395	Shall be shown and annotated	Line	Width	0.56mm
				Casing colour	Black
				Casing line	0.20mm
				Filling	5 (Blue)
				Space between casing	0.56mm
				Route Symbol Size	4.2mm x 4.2mm
National Route	396	Shall be shown and annotated	Line	Width	0.56mm
				Casing colour	Black
				Casing line	0.20mm
				Filling	14 (Red)
				Space between casing	0.56mm
				Route Symbol Size	4.2mm x 4.2mm
Arterial Route	390	Shall be shown and annotated	Line	Width	0.46mm
				Casing colour	Black
				Casing line	0.15mm
				Filling	14 (Red)
				Space between casing	0.46mm
				Route Symbol Size	4.7mm x 4.7mm
Main Road	394	Shall be shown and annotated	Line	Width	0.41mm
				Casing colour	Black
				Casing line	0.10mm
				Filling	15 (Red)
				Space between casing	0.41mm
				Route Symbol Size	4.5mm x 2.2mm
Secondary Road	399	Shall be shown.	Line	Width	0.41mm
				Casing colour	Black
				Casing line	0.10mm
				Filling	9 (Brown)
				Space between casing	0.41mm

Feature	Feature Type ID	Comment	Symbol Type	Dimensions	
Other Road and Access road	398	Shall be shown.	Line	Width	0.30mm
				Casing colour	Black
				Casing line	0.10mm
				Filling	-
				Space between casing	0.30mm
Streets and roads in congested areas	401	Shall be shown.	Line	Width	0.25mm
				Casing colour	Black
				Casing line	0.10mm
				Filling	-
				Space between casing	0.25mm
Road under construction	390/394/395 396/398/399 401	Shall be shown and annotated accordingly.	Pecked line	Width	Same as classified road after completion
				Casing colour	Black
				Casing line	Same as classified road after completion
				Filling	Same as classified road after completion
				Length of dash	4.0mm
				Length of dash	1.5mm
				Annotation	Black typeface
Track, Footpath	402, 391	Shall be shown.	Pecked line	Width	0.15mm
				Colour	Black
				Length of dash	1.0mm
				Length of gap	0.5mm
				Annotation	Black typeface

Destination Information

Destinations - shall be shown in the margin aligned to:

- All classified roads except secondary roads, when there are higher-class roads present on the map face. In the absence of higher- class roads selected secondary road destinations shall be shown.
- The destination name shall refer to the nearest place of importance, and the distance to the nearest kilometre shall be given

SECTION C
Supplementary Informative Elements

C 1 References

Chief Directorate: National Geo-spatial Information, 2012. *1: 50 000 Topographical Map Style Chart*. [unpublished] South Africa: National Geo-spatial Information

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Chief Directorate: National Geo-spatial Information, 2012. *Standard for the Printing of Imagery and Maps (QLAS.SD.6_PRINT)*. [unpublished] South Africa: National Geo-spatial Information

Chief Directorate: National Geo-spatial Information, 2012. *Standard for the Capture of Topographical Data (QLAS.SD.4_TOPO)*. [unpublished] South Africa: National Geo-spatial Information

Chief Directorate: National Geo-spatial Information, 2012. *Annexure A: Data Structure & Attribute Descriptions*. [unpublished] South Africa: National Geo-spatial Information

Trigonometrical Survey Office, 1953. *1.Cartographic Instruction 4 – Specification for South Africa 1:50 000 Topographical Series part 1*. [unpublished] Union of South Africa: Trigonometrical Survey Office

Trigonometrical Survey Office, 1958. *1.Cartographic Instruction 4 – Specification for South Africa 1:50 000 Topographical Series part 2*. [unpublished] Union of South Africa: Trigonometrical Survey Office

C 2 1: 50 000 List of Type

C.2.1 Black Type

C.2.1.1 Heading

Feature	Font Size	Font Style	Colour	Text Example
Sheet number and name (top left)	22.5	Univers 55 Roman	Black	2229 BB MOWBRAY
Scale(top right)	20 and 10	Univers 55 Roman	Black	1:50 000 South Africa Suid - Africa

C.2.1.2 Foot of Map

Feature	Font Size	Font Style	Colour	Text Example
All general reference notes	5.5	Univers 55 Roman	Black	National Freeways, etc.
Reference headings	8	Univers 55 Roman	Black	REFERENCE
Copyright and date note	6 & 6.5	Univers 55 Roman	Black	C State Copyright 2001 Staatsouteursreg
Unofficial names in note surrounds	6	Tekton Bold Oblique	Black	Geographical names shown...ect
Index Box:				
Heading	7	Univers 47 Condensed Light	Black	INDEEX TO SHEETS
Sheet numbers	6.5	Univers 47 Condensed Light	Black	2129DC
Provincial names	5 - 6	Univers 47 Condensed Light	Black	NORTH WEST
Degree values	5.5	Univers ISOLatin 1	Black	30°
Minute values	4.5	Univers ISOLatin 1	Black	15'
Magnetic declination arrow labels	5	Univers 55 Oblique	Black	True N. Mag N.
Magnetic declination data	5.5	Univers ISOLatin 1	Black	15°0' July 1999 7' (1995 - 2000)
Sheet name, edition & date (bottom right)	12.5 & 6	Univers 55 Roman	Black	2229 MOWBRAY SECOND EDITION TWEED UITGAWE 1987
Cadastral notes (screen 30%)	5.5	Univers 55 Roman	Black	Cadastral information, ect

C.2.1.3 Borders

Feature	Font Size	Font Style	Colour	Text Example
Degree values	10.5	Univers ISOLatin 1	Black	22°
Minute values	8.5	Univers ISOLatin 1	Black	10'
Destination names and distances	6	Univers 47 Condensed Light	Black	Houtbaai 6 km
Trim marks	7	Courier Bold	Black	TRIM
International and Provincial Boundary (Acknowledgement Note – if applicable)	5.5	Univers 55 Roman	Black	<u>Note:</u> The delimitation of international ...etc

C.2.1.4 Face of Map

Feature	Font Size	Font Style	Colour	Text Example
Adjoining Territories	Various (<i>at the Cartographer's Discretion</i>)	Times New Roman PS	Black	ZIMBABWE
Cities and Towns	10 - 18	Univers 55 Roman	Black	DURBAN,WINBURG
Small Towns, Suburbs and Village names	5 - 10	Univers 55 Roman	Black	Gouda, Vredehoek
Areas, Localities and Settlements	Various (<i>at the Cartographer's Discretion</i>)	Gill Sans	Black	Zebedelia Estate, Waaihoek
Airports and Aerodromes	5 - 8	Memphis Medium	Black	CAPE TOWN INTERNATIONAL AIRPORT , Fisantekraal Aerodrome
Station, Sidings and Marshalling yards	6	Univers 55 Oblique	Black	Pinedene Sta
Route numbers	5	Univers 47 Condensed Light		N3 / R20 / 136
Mine names and Collieries	6 - 8	Univers 47 Condensed Light	Black	WESTERN DEEP LEVELS
Homesteads, Schools, Missions ,etc.	7	Univers 47 Condensed Light	Black	Rietfontein
P/Office ,Police Station, Store, Place of Worship, School, Hotel	5	Univers 55 Roman	Black	P, PS, W, K, S, H
Battlefields and Monuments	5 - 6	Palantino Bold Italic	Black	Voortrekker Monument
Descriptive terms	5	Univers 45 Light	Black	Sewerage Works ,Diggings, Rec
Descriptive terms where named	5 - 6	Univers 45 Light	Black	Mowbray Golf Course
Large and smaller mountain ranges	Various (<i>at the Cartographer's Discretion</i>)	Grotesque MT	Black	Table Mountain , Pilanesberge
Kops, Peaks, Kranses, Dunes, Rante, Rug, Plato	5 - 9	Grotesque MT	Black	Spitskop , Devil's Peak
Capes, Points, Islands, Coastal Rocks, Caves	Various (<i>at the Cartographer's Discretion</i>)	Gill Sans	Black	Stoney Point, Seal Island
Features of local interest, Beaches, ect.	Various (<i>at the Cartographer's Discretion</i>)	Gill Sans	Black	V & A Waterfront
Passes, Neks Hoogtes, Hoek	6 - 8	Various Gill Sans	Black	Du Toitskloofpas , Constantia Nek
Klowe, Poorte	5 - 7	Univers 45 Light	Black	King's Kloof , Meirings Poort
Highest height	6	Univers 55 Oblique	Black	1387

Spotheights	5	Univers 45 Light	Black	456
Trig.beacon number	5.5	New Century Schoolbook Itl	Black	195
Trig.beacon with numbers	5	Univers 45 Light	Black	2003.2
Cadastral names and numbers (screen30%	5 - 11	Memphis Medium	Black	ELANDSFONTEIN 337 JT
Lighthouses	5 - 6	Memphis Medium	Black	Moullie Point Lighthouse
Ship Wrecks	5 - 6	Palatino Bold Italic	Black	Antipolis July 1977
Unapproved names (Adia)	6 - 8	Tekton Bold Oblique	Black	Seaside

C.2.2 Blue Type

C.2.2.1 Foot of Map

Feature	Font Size	Font Style	Colour	Text Example
Lo. Grid note	5.5	Univers 55 Roman	Blue	The Grid LINES...etc.
Lo. Grid values	5.5	Univers 55 Roman	Blue	+28x -2Y

C.2.2.2 Face of Map

Ocean names	Various (<i>at the Cartographer's Discretion</i>)	Univers 55 Oblique	Blue	INDIAN OCEAN
Ocean names in index	4 - 6	Univers 55 Oblique	Blue	INDIAN OCEAN
Large Bays, Dams, etc	Various (<i>at the Cartographer's Discretion</i>)	Univers 55 Oblique	Blue	TABLE BAY
Other Bays, Dams, Pans, etc.	5 - 6	Univers 55 Oblique	Blue	Camps Bay Bon Accord Dam
Large rivers & Double perennial rivers	6 - 7	Univers 55 Oblique	Blue	Limpoporivier , VAAL RIVER
Double non-perennial & Single perennial rivers	6	Univers 55 Oblique	Blue	Nelsrivier
Single non-perennial rivers	5	Univers 55 Oblique	Blue	Ngwenya Swartspruit
Water features where named	5 - 6	Univers 55 Oblique	Blue	Albert Falls Victoria Reservoir
Blue descriptive terms	5	Univers 55 Oblique	Blue	Canal, Furrow, Siphon, Waterfall, Tidal Pool
Water Tower, Fountain, Reservoir	5	Univers 55 Oblique	Blue	WT / F / R

C.2.3 Brown Type

C.2.3.1 Foot of Map

Feature	Font Size	Font Style	Colour	Text Example
Contour interval note	5.5	Univers 55 Roman	Brown	CONTOUR INTERVAL 20 METRES

C.2.3.2 Face of Map

Feature	Font Size	Font Style	Colour	Text Example
Contour values	4	Univers 45 Roman	Brown	380 400 420

C.2.4 Green Type

Feature	Font Size	Font Style	Colour	Text Example
Game and nature reserves	Various (<i>at the Cartographer's Discretion</i>)	Grotesque MT	Green	MKUZE GAME RESERVE
Forest, bush and plantations	Various (<i>at the Cartographer's Discretion</i>)	Memphis Medium	Green	KNYSNA FOREST PINWOOD PLANTATION

C 3 Style Chart

Style Chart - tiff format