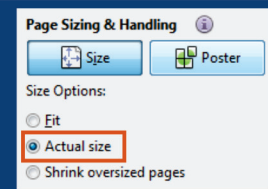**NOTE:** Print this map at correct size to get the correct answers. If you do not print the map at the actual size, you will get the wrong answers.

How to print this map at the Actual Size:
Open the Print dialog box: select Actual size under Page Sizing & Handling.

Activity 5   Construct cross-sections

Refer to FIGURE A and answer the following questions.

1   What is the contour interval of the map?   (1)
2   Calculate the scale of the map and give it as a ratio scale.   (4)
3   Draw a cross-section (A–B) for each of the following vertical scales:
    a   Where 1 cm represents 20 m   (6)
    b   Where 1 cm represents 40 m   (6)
    c   Where 1 cm represents 100 m.   (6)
4   Calculate the vertical exaggeration for each cross-section.   (12)
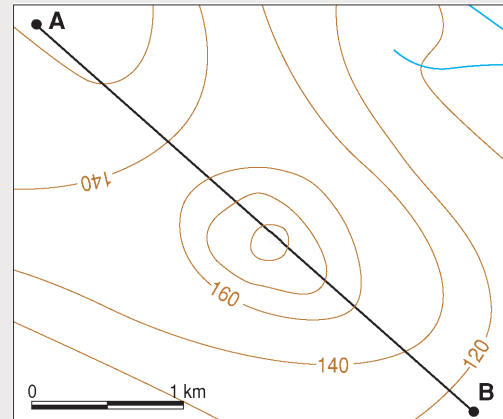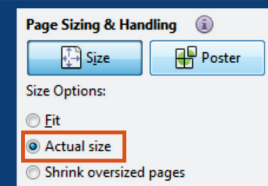   [35]

FIGURE A

NOTE: Print this map at correct size to get the correct answers. If you do not print the map at the actual size, you will get the wrong answers.

How to print this map at the Actual Size:
Open the Print dialog box: select Actual size under Page Sizing & Handling. ➡

Activity 7   Calculate gradient

Refer to **FIGURE A**.
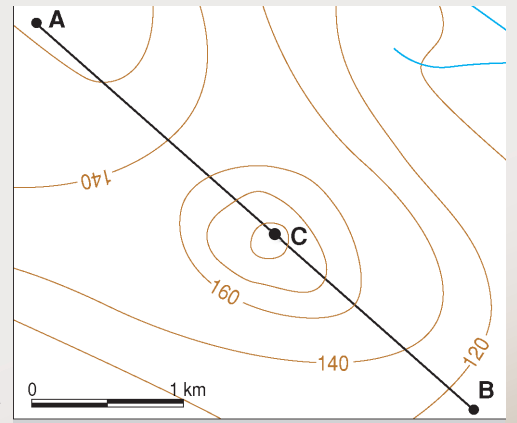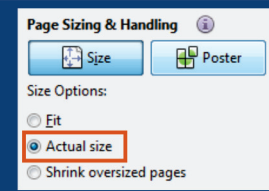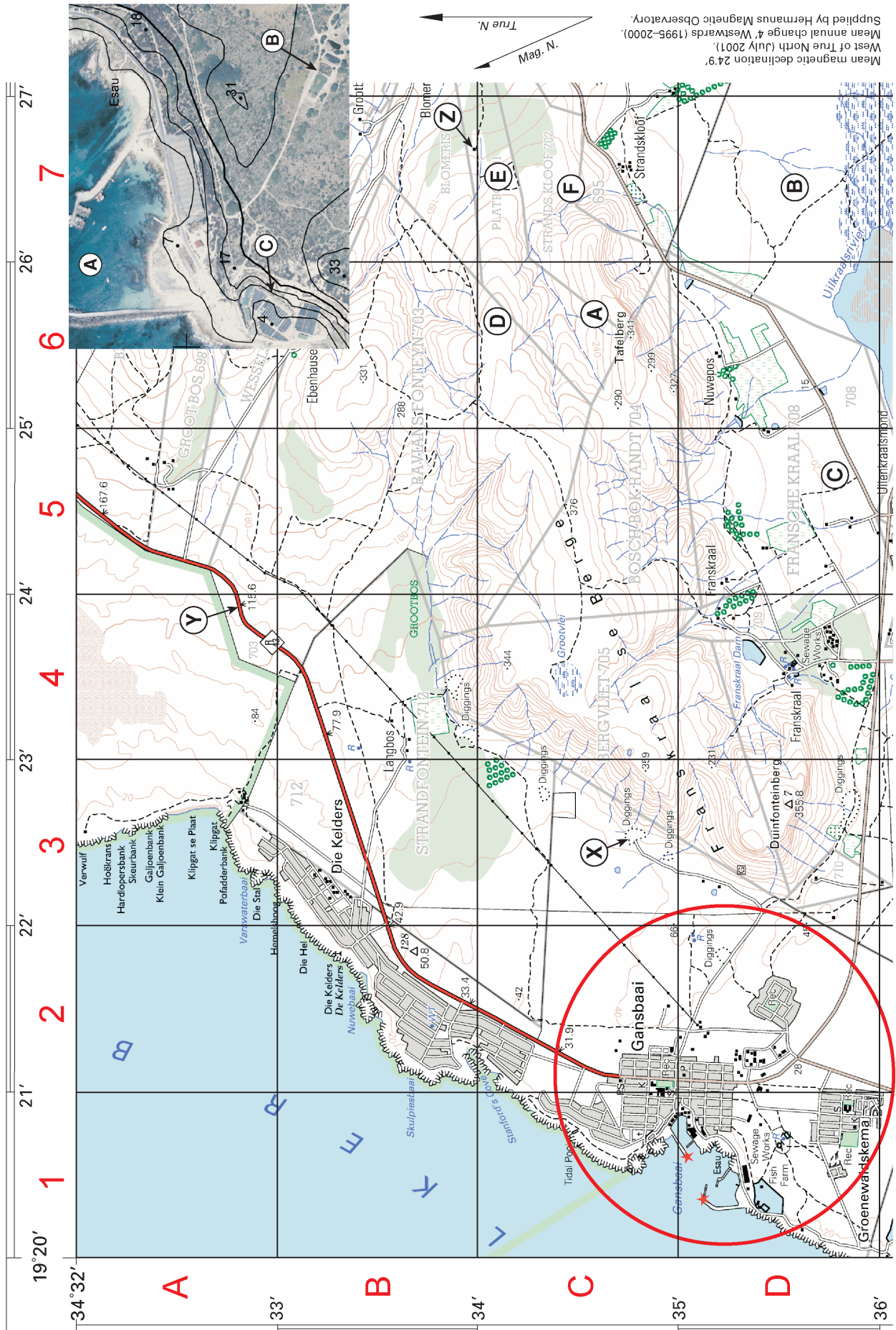
Calculate the gradient between:

A and C   4×2=(8)

B and C.   4×2=(8)

(Remember that you will have to interpret the contours to determine the heights of A, B and C.)

[16]

FIGURE A

SCALE 1:50 000

EXTRACT FROM 3419CB GANSBAAI

Mean magnetic declination 24°9'.
West of True North (July 2001).
Mean annual change 4' Westwards (1995–2000).
Supplied by Hermanus Magnetic Observatory.

True N.

Mag. N.

SCALE 1:50 000

Extracts of topographic maps 3318DB + DD and 3319CA + CC PAARL

Orthophoto map 3318DB 25 PAARL

Extract of topographic map of 3226DD ALICE

Scale 1:50 000

26°45'
32°45'

50'

A   B   C   D

1   2   3   4   5   6   7

Mean magnetic declination 25°54' West of True North (July 2002).
Mean annual change 11' Westwards (2000 – 2005).
Supplied by Hermanus Magnetic Observatory.

True N.
Mag. N.

Fort Beaufort 13 km

Via Afrika

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SCALE 1:10 000

EXTRACT FROM 3320 CC 3 MONTAGU

NOTE: Print this map at correct size to get the correct answers. If you do not print the map at the actual size, you will get the wrong answers.

How to print this map at the Actual Size:
Open the Print dialog box: select Actual size under Page Sizing & Handling.

Page Sizing & Handling
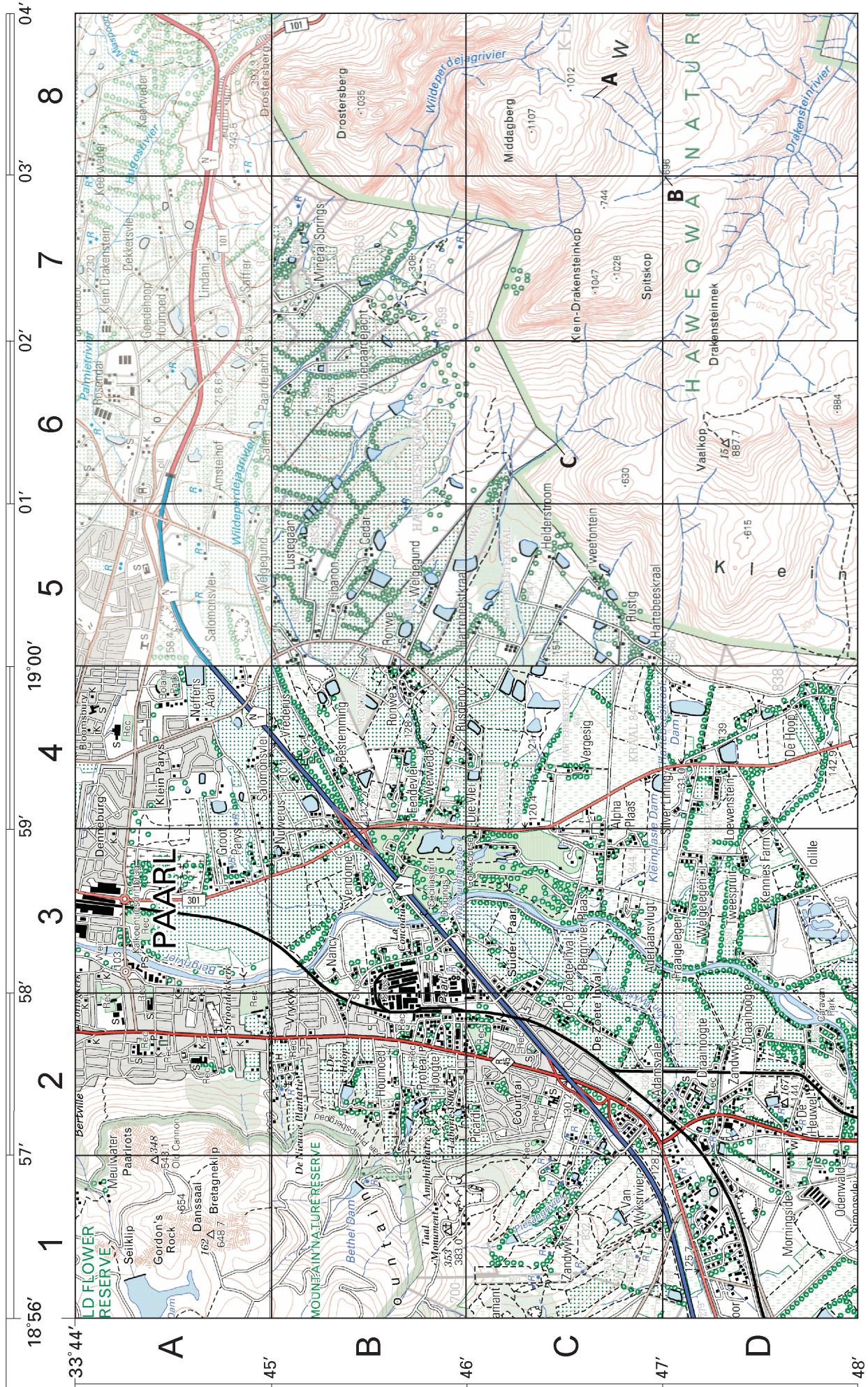Size   Poster
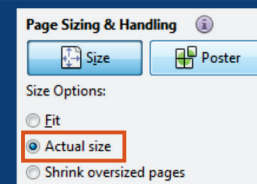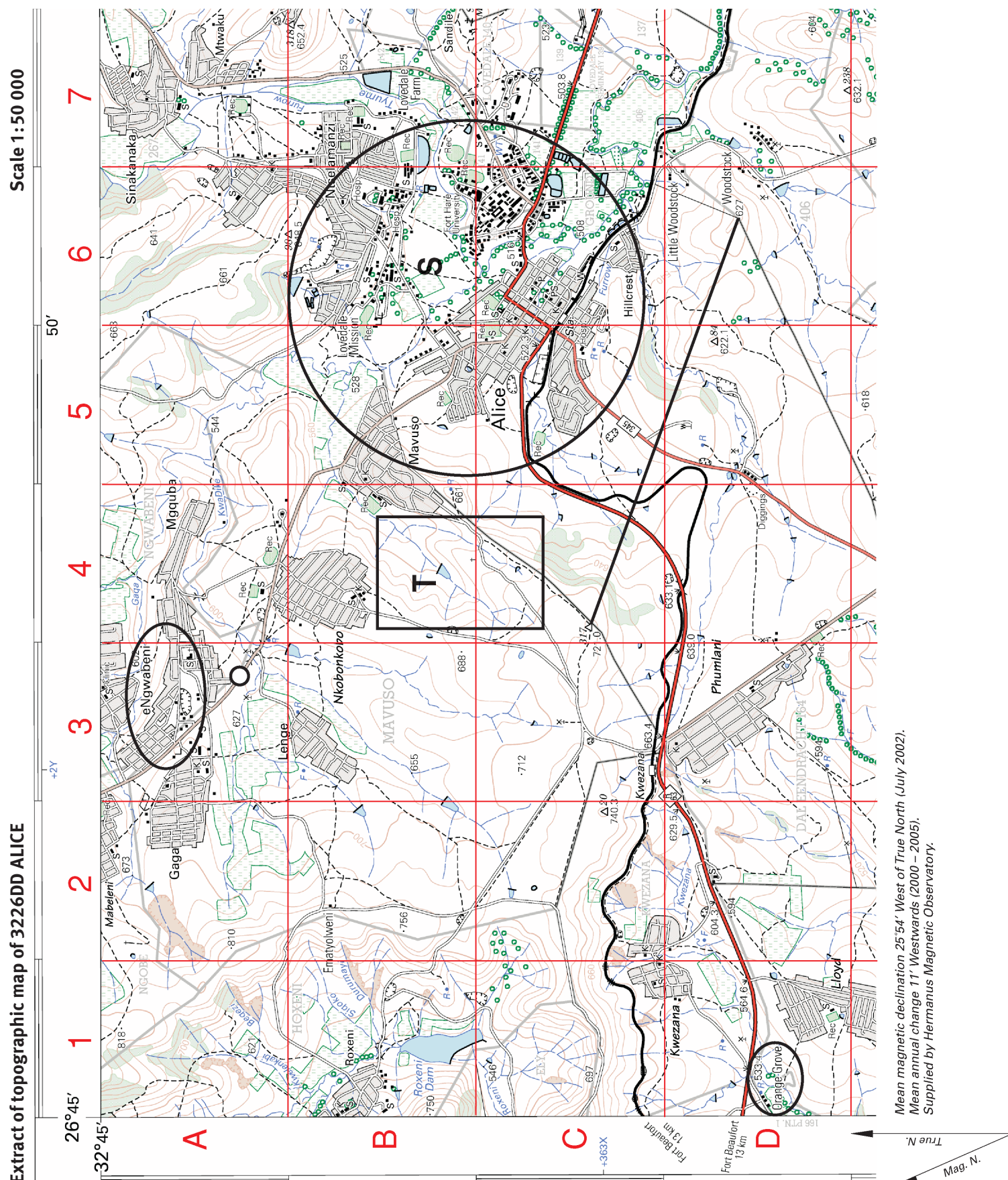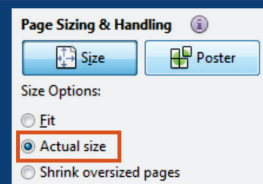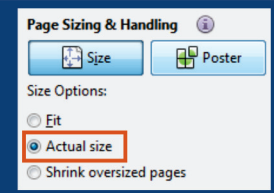Size Options:
○ Fit
● Actual size
○ Shrink oversized pages

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SCALE 1:50 000

EXTRACT FROM 3320 CC MONTAGU

Mean magnetic declination 24°56' West of True North (February 2010).
Mean annual change 4' Westwards (February 2010 – January 2011).
Supplied by Hermanus Magnetic Observatory.

True N.
Mag. N.

Daskop
Rooikoppe
Heldmekaar
Klein
Wikki
Derdeheuwel
Dam se Kop
DERDE HEUVEL
Rietvlei
Scheepersdraai
Cyples
Derde Heuvel
Helpmekaar
Ordnance
Spitskop
Nuwedrift
Kliprug
Wolfespoort
Goudmyn
Oskloof
Ashbury
Brickfield
Knipes Hope
Knipe's Hope Dam
Fort
Purification Plant
Koedoeskoppe
Skietnek se Laagte
Golf Course
Diggings
Montagu Museum
Bergsig
Die Erf
Oui Si Sana
Geelboslaagte
Baths
Montagu
Die Ou Meul
Touwsrivier 96 km
Bordeaux
Donnie se Kloof
Krulkloof
Aasvoëlkrans
Keurkloof
MONTAGU MOUNTAIN
NATURE RESERVE
Cogmanskloof Hiking Trail
Vrolijkheid
Droëkloof
Voortrekkerbrug
Kalkoennes
Fort 1899
Lichtensbrug
Bo Retiefsbrug
Die Ou Tol
DROEKLOOF
Bloupunt Hiking Trail
WERKSWINKEL