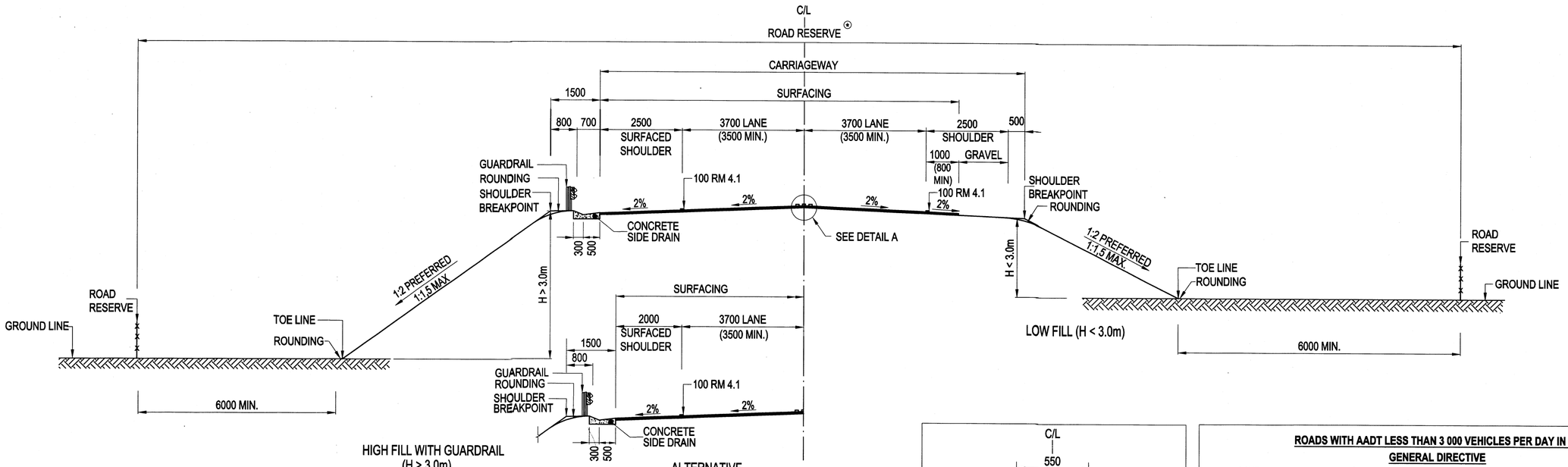
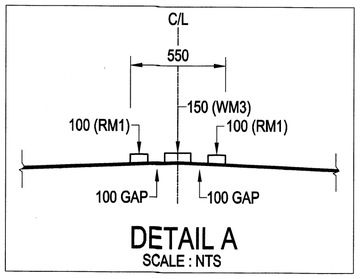
TYPICAL CROSS SECTIONS
SINGLE CARRIAGEWAY ROADS
AADT < 3 000vpd IN 10 YEARS

ROAD RESERVE DIRECTIVE (SINGLE CARRIAGEWAY)
- 30m MINIMUM (EXISTING ROADS WITH UPGRADES TO ACCOMMODATE A 20 YEAR DESIGN PERIOD).
- 50m MINIMUM (ROADS CARRYING > 8000 vpd AT THE END OF THE 30 YEAR DESIGN PERIOD).



FILL CONDITION
SCALE - 1 : 100

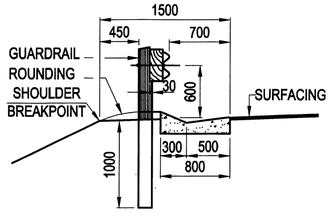


DETAIL A
SCALE : NTS

ROADS WITH AADT LESS THAN 3 000 VEHICLES PER DAY IN 10 YEARS

GENERAL DIRECTIVE

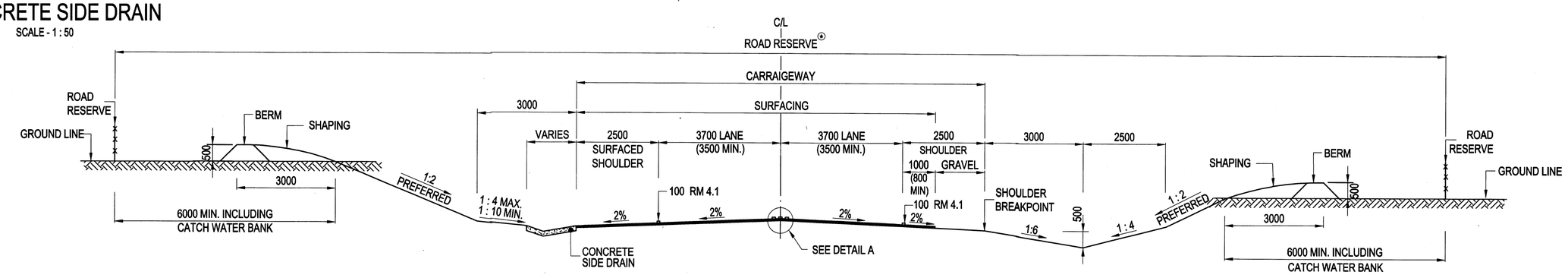
- LANES : 3.5 m MINIMUM, 3.7m PREFERRED.
- TOTAL SHOULDER WIDTH (INCLUDING GRAVEL) : 2.5m EXCLUDING ROUNDING.
- PAVED SHOULDER : 0.8m MINIMUM, 1.0m PREFERRED.
- SURFACED WIDTH : 8.6m MINIMUM (2 x 3.5m & 2 x 0.8m), 9.4m PREFERRED (2 x 3.7m & 2 x 1.0m) .
- CARRIAGEWAY :
  - * 12.0m MINIMUM FOR EXISTING ROADS.
  - * SHOULDER BREAKPOINT OF EXISTING ROAD
  - * 13.4m PREFERRED (INCLUDING ROUNDING).
- TOTAL SHOULDER WIDTH SURFACED WHERE CONCRETE SIDE DRAINS ARE INSTALLED (DEEP CUTS AND HIGH FILLS).
- ON EXISTING ROADS BEING UPGRADED, THE CARRIAGEWAY WIDTH DIMENSIONS CAN BE ADJUSTED SUBJECT, TO SANRAL APPROVAL, IN ORDER TO MAINTAIN THE POSITION OF THE SHOULDER BREAKPOINT.



POSITION OF TYPE 'A' CONCRETE SIDE DRAIN
SCALE - 1 : 50

ROAD MARKING LEGEND

RM1 : NO OVERTAKING LINE
RM4.1 : YELLOW LEFT EDGE LINE
WM3 : DIVIDING LINE



CUT CONDITION
SCALE - 1 : 100

FOR LATEST VERSION CHECK www.nra.co.za

No.	DATE	VERSION / REVISION	APPROVED
V2	FEB 2016	ROAD RESERVE DIRECTIVE AMENDED	
V1	SEPT 2014	ORIGINAL VERSION	

SANRAL TYPICAL DRAWINGS

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THE SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD
Reg. No.1998/009584/30

HEAD OFFICE
48 Tambotie Avenue
Val de Grace
Pretoria
0184

PO Box 415
Pretoria 0001
South Africa

Tel: (012) 844 8000

APPROVED
DATE: 2016/02/26

TYPICAL DRAWINGS - ROADWORKS

TYPICAL CROSS-SECTIONS
SINGLE CARRIAGEWAY - AADT LESS THAN 3 000vpd IN 10 YEARS

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