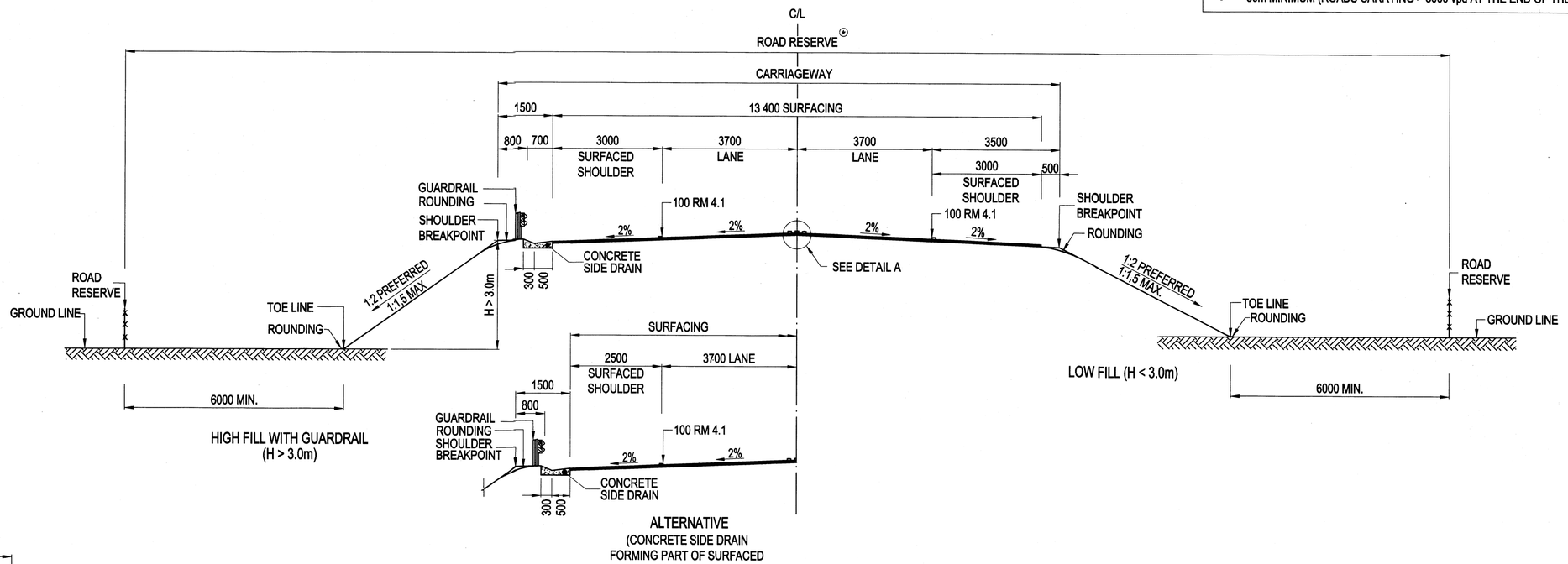
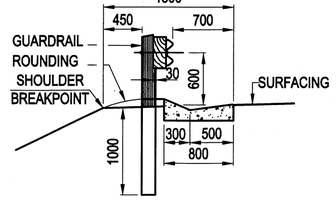
TYPICAL CROSS SECTIONS
SINGLE CARRIAGEWAY ROADS WITH 3m SURFACED SHOULDER
AADT > 3 000vpd

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).

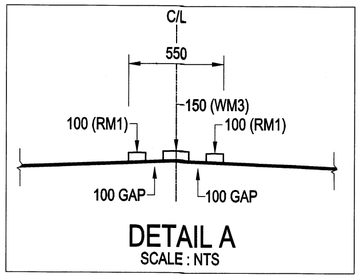


FILL CONDITION
SCALE - 1 : 100



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

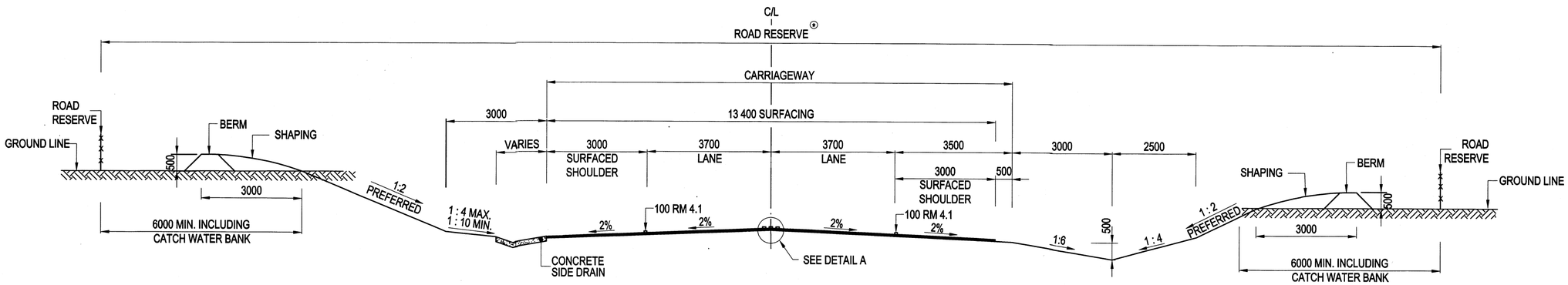
ROAD MARKING LEGEND
RM1 : NO OVERTAKING LINE
RM4.1 : YELLOW LEFT EDGE LINE
WM3 : DIVIDING LINE



DETAIL A
SCALE : NTS

ROADS WITH AADT GREATER THAN 3 000 VEHICLES PER DAY (AADT)
GENERAL DIRECTIVE
- LANES : 3.7 m.
- TOTAL SHOULDER WIDTH (INCLUDING GRAVEL) : 3.5m EXCLUDING ROUNDING.
- PAVED SHOULDER : 3.0m MINIMUM.

NOTE :
WHERE TRAFFIC VOLUMES ARE LESS THAN 2000vpd AND EXPECTED TO REMAIN BELOW 3000vpd FOR THE NEXT 10 YEARS A NARROWER CROSS-SECTION MAY BE CONSIDERED. HOWEVER IN ALL CASES TOLL ROADS SHALL HAVE A MINIMUM SURFACED SHOULDER WIDTH OF 2.5m.



DEEP CUT

CUT CONDITION
SCALE - 1 : 100

SHALLOW CUT

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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APPROVED
DATE: 2016/02/26

TYPICAL DRAWINGS - ROADWORKS

TYPICAL CROSS-SECTIONS
SINGLE CARRIAGEWAY - AADT GREATER THAN 3 000vpd

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