RECOMMENDED CLASS OF RETROREFLECTIVE MATERIALS FOR PERMANENT ROAD SIGNS

TYPE	SERIES	BACKGROUND	BORDER	TEXT	SYMBOLS / ARROWS	NOTES
REGULATORY						
CONTROL	R1 - R6	I	I	I	I	
COMMAND	R101 - R140	I	I	◆	◆	
PROHIBITION	R201 - R242	I	I	I	I	
RESERVATION	R301 - R354	◈ / I	I	I	I	
COMPREHENSIVE	R401 - R403	I	I	I	I	
WARNING						
ADVANCE	W101 - W363	I	I	◆	◆	
HAZARD	W401 - W415	I	I	-	I	
GUIDANCE						
LOCATION	GL	I	◆	◆	◆	River 1
ROUTE MARKER	GE	I	I	I	I	
TRAILBLAZER	GE	I	I	I	I	
DIRECTION	GD	◈ / I	I	I	I	
FREEWAY DIRECTION	GA, GB, GC	I	I	◈ / III	◈ / III	
TOURISM	GF	◈ / I	I	I	I	
LOCAL DIRECTION	GDL	I	I	◆	◆	
DIAGRAMMATIC	GS	I	I	◆	◆	"Block" 1
PEDESTRIAN	GP	◈ / I	◆	◆	◆	
INFORMATION	IN	I	I	I	I	

KEY

- I CLASS I
- II CLASS II
- III CLASS III
- ◆ SEMI-MATT
- ◈ SEMI -MATT INSTEAD OF CLASS I WHEN ONLY FOR DAY TIME APPLICATIONS
- \- NOT APPLICABLE

REFERENCE:
SADC RTMS MANUAL VOL 1-SECTION 1.5.2 TABLE 1.1 RETROREFLECTIVE MATERIALS FOR ROAD SIGNS

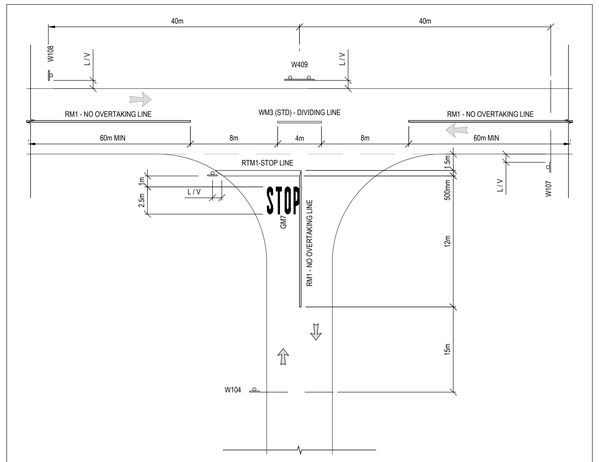
RECOMMENDATIONS FOR PLACEMENT OF PERMANENT REGULATORY AND WARNING SIGNS

SIGN TYPE	OPTIONS	LONGITUDINAL DISTANCE (m) APPROACH SPEED (km/hr) 60	80	100	120	POSITIONS (mm) KERB AND SIDEWALK LATERAL	VERTICAL	SHOULDER (NO KERB) LATERAL	VERTICAL
REGULATORY SIGNS	MINIMUM	AT POINT OF APPLICATION				600	2 100	1 200	750
	PREFERRED					750	2 500	1 500	2 100
	MAXIMUM					N/A	3 000	2 000	2 500
WARNING SIGNS	MINIMUM	120	150	240	330	600		1 200	750
	PREFERRED					750		1 500	2 100
	MAXIMUM					N/A		2 000	2 500
WARNING ADVANCE W + IN = 150mm APART (MAX 200mm)	MINIMUM	120	150	240	330	600	2 100	1 200	750
	PREFERRED					750	2 500	1 500	1 800 - 2 100
	MAXIMUM					N/A	3 000	2 000	2 500
REGULATORY ADVANCE R + IN	MINIMUM	120	150	240	330	600	2 100	1 200	750
	PREFERRED					750	2 500	1 500	1 800 - 2 100
	MAXIMUM					N/A	3 000	2 000	2 500
HAZARD MARKERS									
W401 / W402	MINIMUM	AT THE HAZARD				600	300	600	600
	MAXIMUM					4 000	1 200	1 200	1 200
W405 / W406	MINIMUM					600		1 500	1 200
	MIN. WITH GUARDRAIL							1 000 (FROM FRONT OF GUARDRAIL)	465 (FROM TOP OF GUARDRAIL)
	MAXIMUM					4 000	1 200	4 000	1 200

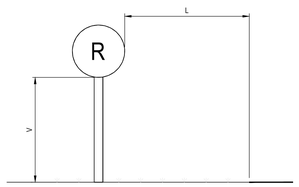
REFERENCES:
SADC RTSM-VOL 1.-TABLE 1.3
SADC RTSM-VOL 2-SECTION 3.1.8.-TABLE 3.4

ROAD MARKINGS & ROAD SIGNS NOTES & SPECIFICATIONS:

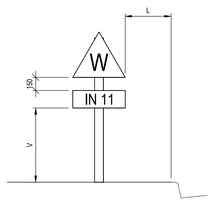
NOTES:
1. ALL TEMPORARY ROAD SIGNS SHALL HAVE A RETROREFLECTIVE BACKGROUND, AND SEMI-MATT BORDER, SYMBOL OR LETTER.
2. AN AUTHORITY MAY SPECIFY CLASS III IN PLACE OF CLASS II IF SATISFIED THAT THIS IS COST EFFECTIVE (SEE SUBSECTION 1.5.3).
3. CHECK LUMINANCE FACTOR BEFORE SPECIFYING HIGHER THAN CLASS I.
4. DUE TO THEIR SMALL SIZE STREET NAME SIGNS GL1 ARE RECOMMENDED TO BE RETROREFLECTIVE.
5. CERTAIN SIGNS ARE SPECIFIED AS RETROREFLECTIVE ONLY(REFER TO REGULATIONS AND TABLE)
6. SPECIFICATIONS RELEVANT TO THE MANUFACTURE AND APPEARANCE OF ROAD TRAFFIC SIGNS AND ROAD MARKINGS ARE:
   - 6.1 SANS 1519-1 – 2006/1519-2 - 2004: ROAD SIGNS
   - 6.2 SANS 731-1 – 2006/731-2 - 2006: ROAD MARKING PAINT
   - 6.3 CKS 192 - 1971: DROP-ON TYPE REFLECTORISED ROAD-MARKING PAINT
   - 6.4 CKS 501 - 1981: ROAD MARKING PAINT, HIGH BUILD, NON-SKID;
   - 6.5 SANS 1442 - 2008: ROADSTUDS;
   - 6.6 SANS 1459 - 2004: TRAFFIC LIGHTS
7. WHERE THESE SPECIFICATIONS DO NOT INCLUDE A COLOUR SPECIFICATION, SUCH AS FOR PAINTS, THIS IS COVERED BY:
   - 7.1 SANS 1091 - 2004: NATIONAL COLOUR STANDARDS FOR PAINT; OR
   - 7.2 CKS - 279 - 1971: COLOURS FOR PAINTS.



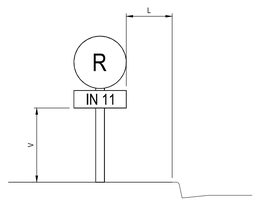
STOP CONTROL DETAIL WITH PEDESTRIAN CROSSING FOR CLASS "C" AND "D" T-JUNCTIONS UNDER RURAL CONDITIONS
N.T.S



POSITIONING OF REGULATORY SIGNS (SHOULDER - NO KERB)
SCALE: 1:25



POSITIONING OF ADVANCE WARNING SIGNS (KERB AND SIDEWALK)
SCALE: 1:25



POSITIONING OF ADVANCE REGULATORY SIGNS (KERB AND SIDEWALK)
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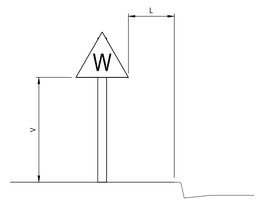
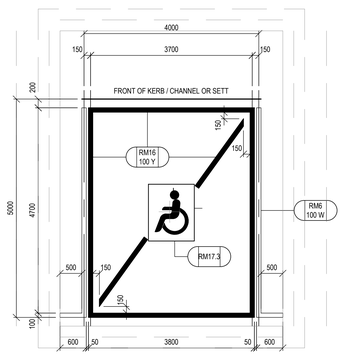
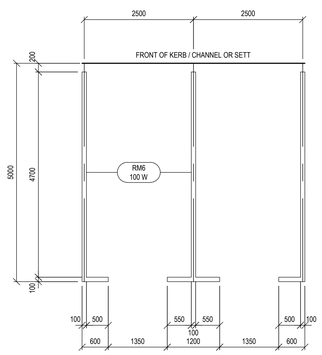


POSITIONING OF WARNING SIGNS (KERB AND SIDEWALK)
SCALE: 1:25



DISABLED PARKING BAY DIMENSIONS AND DETAILS
SCALE: 1:50



BASIC PARKING BAY DIMENSIONS AND DETAILS IN FULL LINES
SCALE: 1:50

GENERAL NOTES

1. ALL LEVELS AND DIMENSIONS TO BE VERIFIED ON SITE PRIOR TO CONSTRUCTION AND ANY DISCREPANCIES WITH LEVELS AND DIMENSIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
2. THE ENGINEER WILL NOT BE HELD RESPONSIBLE FOR ANY INCORRECT SETTING OUT.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL AND STRUCTURAL ENGINEERS DRAWINGS.
4. ALL SETTING OUT TO BE UNDERTAKEN BY A REGISTERED PROFESSIONAL LAND SURVEYOR.

SCALE (mm)
0 10 20

No.	REFERENCE DRAWINGS

REV	DESCRIPTION	BY	DATE
P1	PRELIMINARY	S.M	2025.05.19

Professional person Registration

CLIENT
SOUTH AFRICAN POLICE SERVICES

PROJECT
PROPOSED MSINSINI POLICE STATION

DETAILS
ROAD MARKINGS AND ROADS SIGNS TYPICAL DETAILS

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SRBS ISO 9001 CESA

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DRAWN	S.M		AS SHOWN
APPROVED	S.S	PL	DATE 2025.05.19

TENDER No.
DRAWING No. 589/915 REV P1

PRELIMINARY