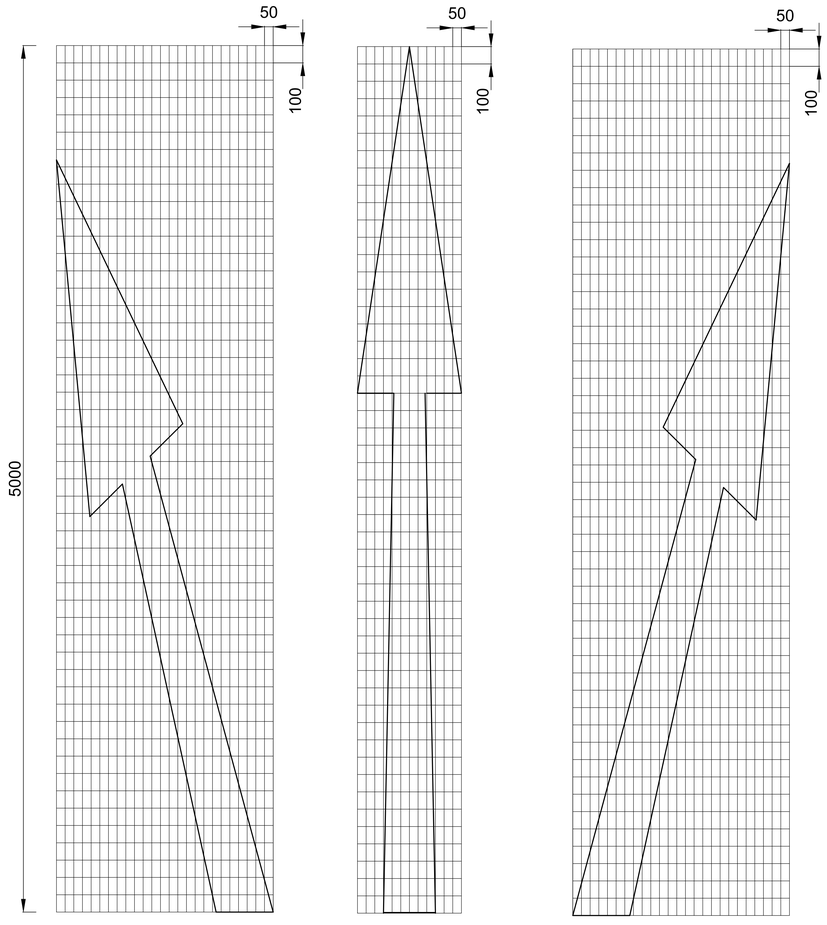
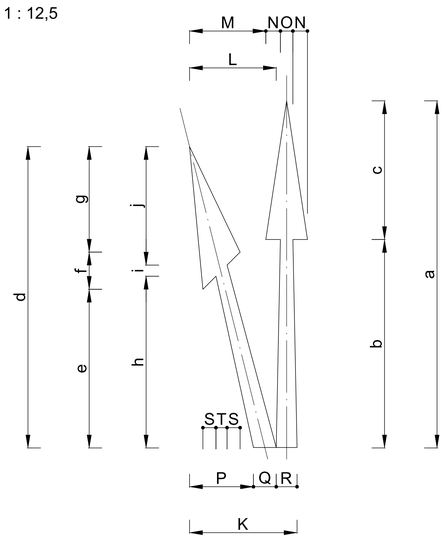


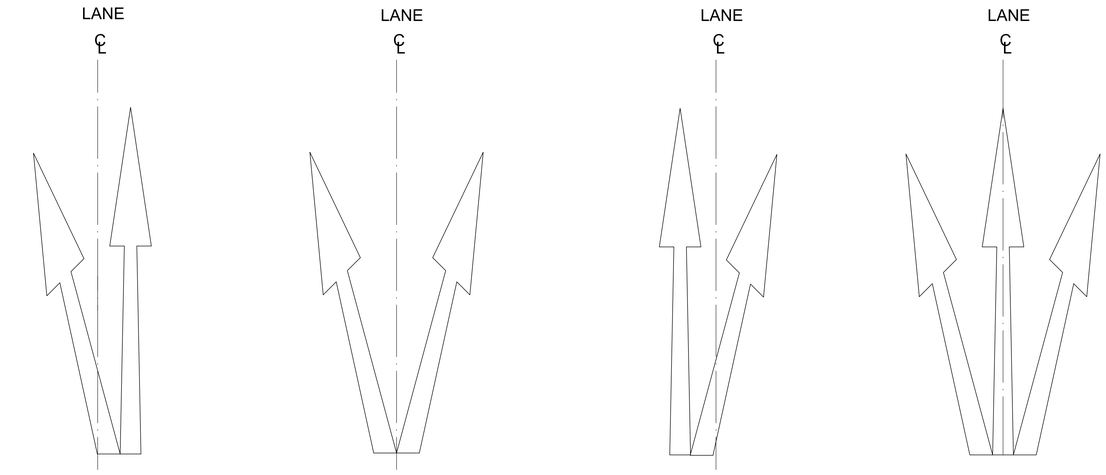

SCALE 1 : 12,5




NOTES:

1. THESE ARROWS MAY BE USED TO INDICATE THAT THE NUMBER OF LANES ARE INCREASING AHEAD. ONLY ONE SET OF ARROWS SHOULD BE USED UNLESS A LEFT AND RIGHT TURN LANE ARE ADDED TO A MULTI-LANE ROADWAY AT THE SAME POINT WHERE TWO SETS MAY BE USED.
2. DIRECTION ARROWS AHEAD SHALL NOT BE USED TO INDICATE THE ADDITION OF LANES AHEAD.
3. AS A GENERAL RULE BIFURACTION ARROWS SHOULD BE LOCATED TWO TO THREE MARKING MODULES BEFORE THE START OF THE LANE GENERATING TAPER OR CURVE.

BIFURCATION ARROWS




GM 3.1
LANE ADDITION LEFT

GM 3.2
LANE WIDENS TO TWO LANES

GM 3.3
LANE ADDITION RIGHT

GM 3.4
LANE ADDITIONS LEFT AND RIGHT

## APPLICATIONS

DIMENSIONS (mm)

| OPERATING SPEED km/h | TYPICAL APPLICATIONS | a | b | c | d | e | f | g | h | i | j |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 30 -40 | CITY CENTRE | 2500 | 1500 | 1000 | 2170 | 1141 | 268 | 761 | 1235 | 81 | 855 |
| 50 - 60 | URBAN ROADS | 4000 | 2400 | 1600 | 3472 | 1826 | 429 | 1218 | 1976 | 129 | 1367 |
| 70 - 90 | URBAN ARTERIAL ROADS/ RURAL EXPRESSWAYS | 5000 | 3000 | 2000 | 4340 | 2282 | 536 | 1522 | 2470 | 161 | 1709 |
| 100 - 120 | RURAL ROADS AND FREEWAYS | 7500 | 4500 | 3000 | 6510 | 3423 | 804 | 2283 | 3705 | 242 | 2564 |

| ALL OPERATING SPEEDS | K | L | M | N | O | P | Q | R | S | T |
|---|---|---|---|---|---|---|---|---|---|---|
| AND APPLICATIONS | 1700 | 1250 | 1100 | 210 | 180 | 921 | 329 | 300 | 188 | 161 |

| ARROW AREA (m²) | | | |
|---|---|---|---|
| a | GM3.1/GM3.3 | GM3.2 | GM3.4 |
| 2500 | 1.30 | 1.27 | 1.93 |
| 4000 | 2.07 | 2.04 | 3.09 |
| 5000 | 2.59 | 2.55 | 3.87 |
| 7500 | 3.89 | 3.82 | 5.80 |

| No. | DATE | REVISION |
|---|---|---|
| V1 | 08/03/2024 | ORIGINAL VERSION |


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SANRAL
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD
Reg.No. 1998/893/06
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

WESTERN REGION
1 Havenga Street
Oakdale
Bellville
7530

Private Bag X19
Bellville
7535

Tel: (021) 957 4600



ACCEPTANCE

THIS ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWEVER ARISING

for the SA NATIONAL ROADS AGENCY SOC LTD.

Date:


PROJECT DESCRIPTION
**THE CAPACITY IMPROVEMENT OF NATIONAL ROUTE 1 SECTION 1 FROM OLD OAK INTERCHANGE (KM 18.90) TO KOELENHOF INTERCHANGE (KM 33.00)**

**ROAD MARKINGS**
**BIFURCATION ARROWS**

SCALE @ A0: AS SHOWN | SHEET 1 OF 1

| PROJECT NUMBER | N001-010-2021/1 | |
|---|---|---|
| DRAWING LOCATION DATA | START | END |
| ROUTE | N01 | N01 |
| SECTION | 01 | 01 |
| DRAWING km DISTANCE | 18.900 | 33.000 |
| DRAWING TYPE | ROADS - ROAD MARKINGS | |
| BRIDGE/STRUCTURE No. | N/A | |
| CONSULTANT DRAWING No. | 312-00827-01-TD17 | VER |
| SANRAL DOCUMENT # | XXXXXX | V1 |

312-00827-01-TD17