

NOTES AND SPECIFICATIONS

CONSTRUCTION METHOD: SPEED HUMPS

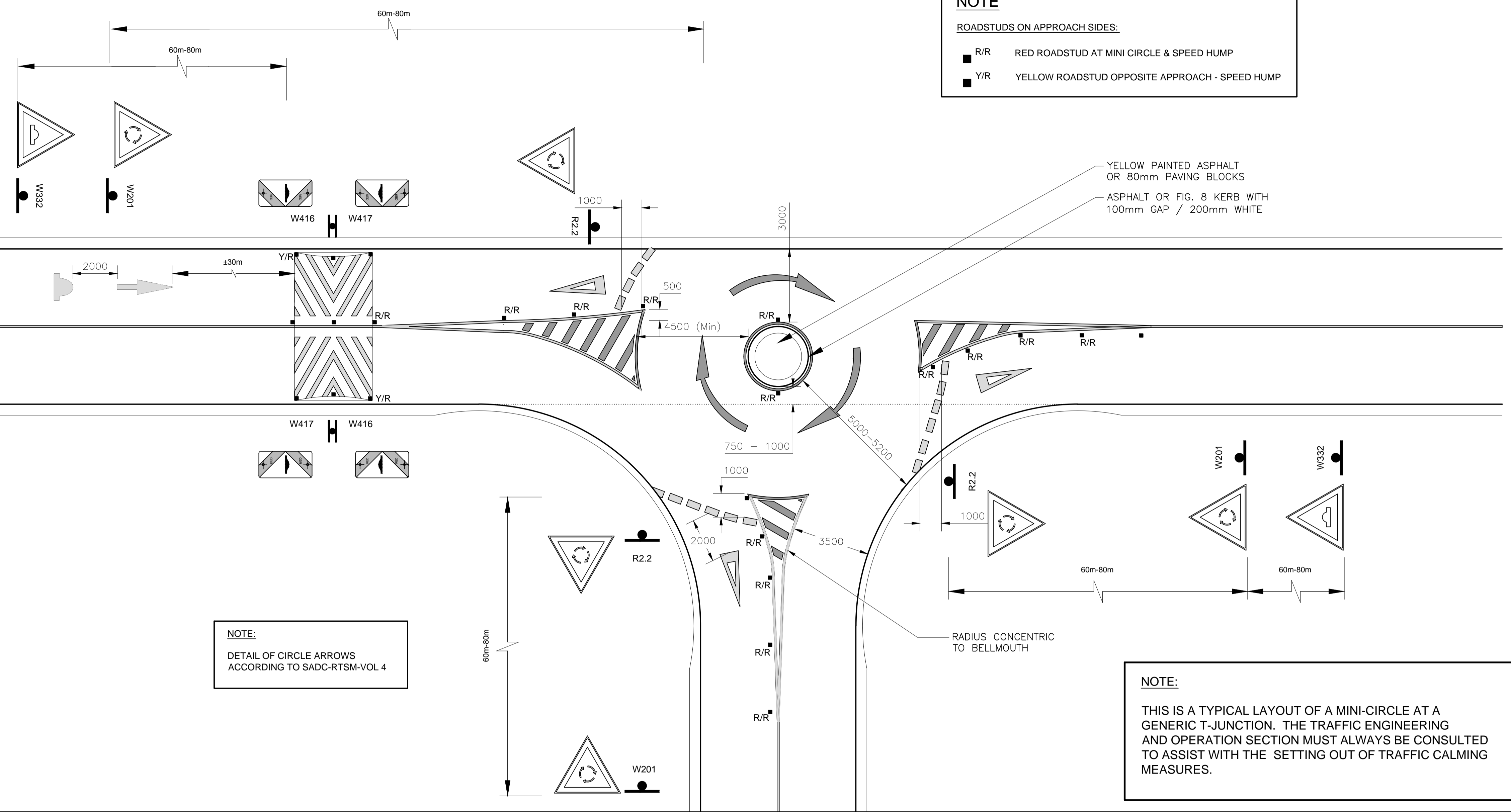
- Setting out of hump - few days before construction.
  - Saw cuts one to two days before construction.
- ON CONSTRUCTION DAY:
- Remove 500 mm asphalt strips.
  - Start erecting road signs and paint warning road marking.
  - Place asphalt in strips and compact with two passes without vibrator.
  - Place templates - both sides of one lane at a time.
  - Place asphalt and rake till slightly higher than templates.
  - Shape asphalt with straight edge (channel section 6 m long).
  - Remove templates and compact without vibrator (three passes)
  - Measure profile and rectify if necessary.
  - Final compaction with three to four passes with vibrator.
  - Place road studs.
  - Paint speed hump the next day.

2. Traffic Signs:
- Only galvanised bolts and nuts to be used on W and R series (no uni-struts)
  - All signs must be according to the Road Traffic Signs Manuals but use 900Φ STOP (60km/h zone) for 3-way and 4-way stops
  - All signs excluding R1 series must have rounded edges
3. ROADMARKINGS:
- All new road markings in thermoplastic
- All longitudinal road markings in 1.2mm thick thermoplastic.
  - All small hand type markings namely STOP lines, Yield Lines, Pedestrian Crossing Lines, Block Pedestrian Crossings, Arrows and Symbols to be in thermoplastic (1.2mm thick) or two component cold plastic (MMA - Methyl Methacrylate) applied as a screed (1mm thick).

| Colour | Paint application rate (mm) | Premix bead application rate (%) | Initial coefficient of retro-reflectance (m <sup>2</sup> /mcd/deg/lux/m <sup>2</sup> ) |
|--------|-----------------------------|----------------------------------|--|
| WHITE  | 1.2mm thermop (1mm Cold)    | 35                               | 250  |
| YELLOW | 1.2mm thermop (1mm Cold)    | 35                               | 135  |

NOTE:  
The Traffic Engineering and Operation section must always be consulted to assist with the setting out of speed humps.

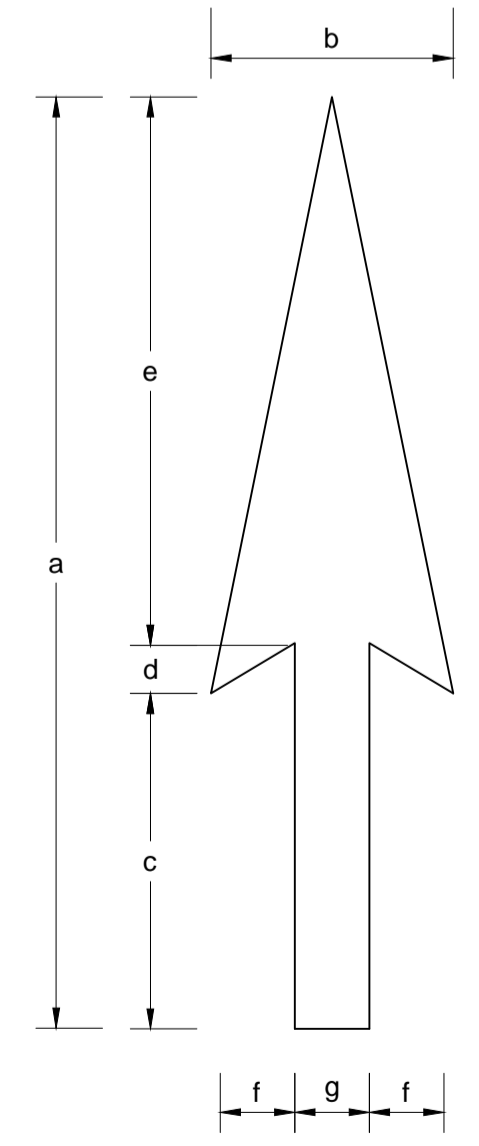
NOTE  
ROADSTUDS ON APPROACH SIDES:  
■ R/R RED ROADSTUD AT MINI CIRCLE & SPEED HUMP  
■ Y/R YELLOW ROADSTUD OPPOSITE APPROACH - SPEED HUMP



NOTE:  
DETAIL OF CIRCLE ARROWS ACCORDING TO SADC-RTSM-VOL 4

NOTE:  
THIS IS A TYPICAL LAYOUT OF A MINI-CIRCLE AT A GENERIC T-JUNCTION. THE TRAFFIC ENGINEERING AND OPERATION SECTION MUST ALWAYS BE CONSULTED TO ASSIST WITH THE SETTING OUT OF TRAFFIC CALMING MEASURES.

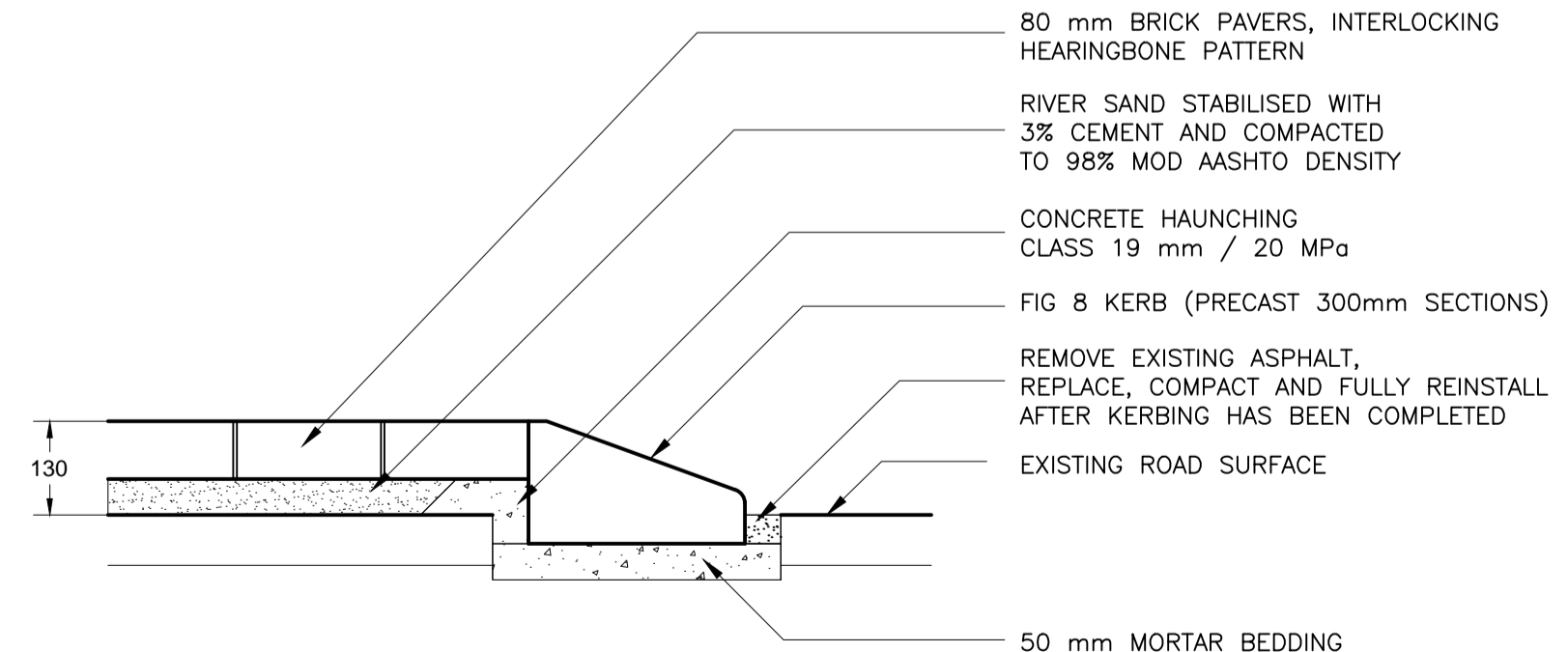
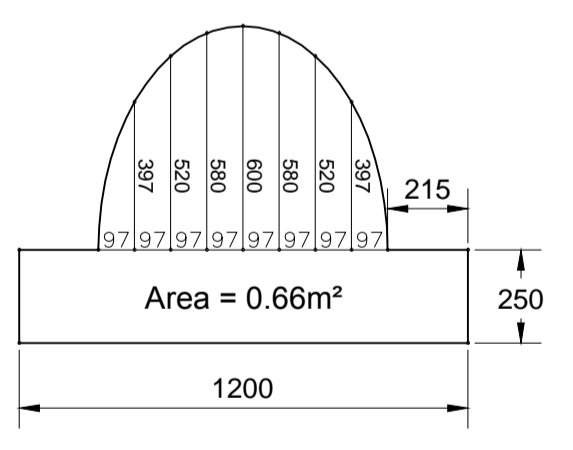
TYPICAL LAYOUT OF 3-LEGGED MINI-CIRCLE  
SCALE 1: 100



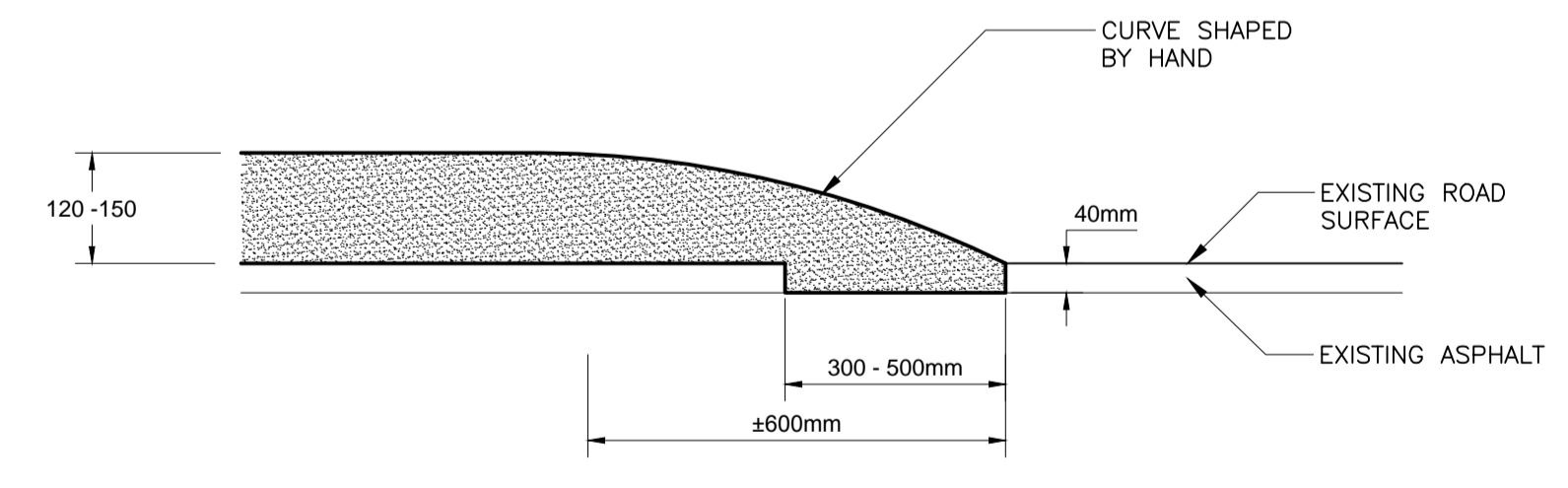
DIMENSIONS (mm)

| OPERATING SPEED Km/h | TYPICAL APPLICATIONS | a    | a'   | b    | c   | c'  | d   | e    | f   | g   |
|----------------------|----------------------|------|------|------|-----|-----|-----|------|-----|-----|
| 30 - 40              | CITY CENTRE          | 1250 | 2000 | 1250 | 450 | 400 | 50  | 750  | 500 | 250 |
| 50 - 60              | URBAN                | 2500 | 4000 | 1250 | 900 | 800 | 100 | 1500 | 500 | 250 |

DETAIL OF SPEED HUMP ROAD MARKING  
SCALE 1: 20



CIRCLE ALT. 2: PAVED CIRCLE WITH KERBED TOE  
SCALE 1: 100



CIRCLE ALT. 1: ASPHALT  
SCALE 1: 100

AMENDMENTS

| NR. | DATE | APPROVED | DESCRIPTION | PAR. |
|-----|------|----------|-------------|------|
|     |      |          |             |      |

|                                |      |  |
|--------------------------------|------|--|
| DESIGNED<br>C.B. RAMEKANE      | DATE | DRAWN<br>S. AUDIE  |
| DESIGN CHECKED BY<br>E. BREEDT | DATE | INFRASTRUCTURE TECHNICAL INFORMATION MANAGEMENT<br>D.J. CHALMERS |

**CITY OF TSHWANE**  
ROADS AND TRANSPORT DEPARTMENT

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DRAWING APPROVED BY ACTING EXECUTIVE DIRECTOR  
Mr Lebepe M.T. (Thabo)

LOCATION OF PROJECT:  
**TYPICAL STANDARD DETAILS**  
DESCRIPTION OF PROJECT:  
**TRAFFIC CALMING MEASURES**  
MINI-CIRCLE DETAILS (1)

|                              |                            |
|------------------------------|----------------------------|
| CONTRACT NO.:                | PROJECT NO.:               |
| DATE:<br>15 MARCH 2018       | SCALE:<br>AS SHOWN         |
| DRAWING NO.<br><b>STD016</b> | ORIGINAL PAPER SIZE:<br>A1 |
| SHEET NO.<br>3 OF 7          | REVISION                   |

