



Rural Road Safety Course



ROAD MARKINGS

Introduction

- Purpose of road markings –
 - Guide and control traffic on Roads
 - Supplement the function of traffic signals
 - Psychological barrier
 - Signify the delineation of traffic path for the safe movement of traffic

Classification

1. Longitudinal markings
2. Transverse markings
3. Object markings
4. Word messages
5. Marking at hazardous locations

Longitudinal Markings

- Placed along the direction of traffic on road surface
- Indicates proper positioning of moving vehicle on roadway
- **White Markings** – Separates traffic flowing in the same direction & separates pavement edges
- **Yellow Markings** – Separates traffic flowing in the opposite directions

Longitudinal Markings

- **Center Line**
- **Traffic lane Lines**
- **No Passing Lines**
- **Warning Lines**
- **Edge Lines**

WHITE LINES



BROKEN WHITE



- SEPARATES TRAFFIC GOING IN THE SAME DIRECTION



- ONE WAY STREETS



- DRIVERS MAY CROSS THIS LINE



SOLID WHITE

- DO NOT CROSS

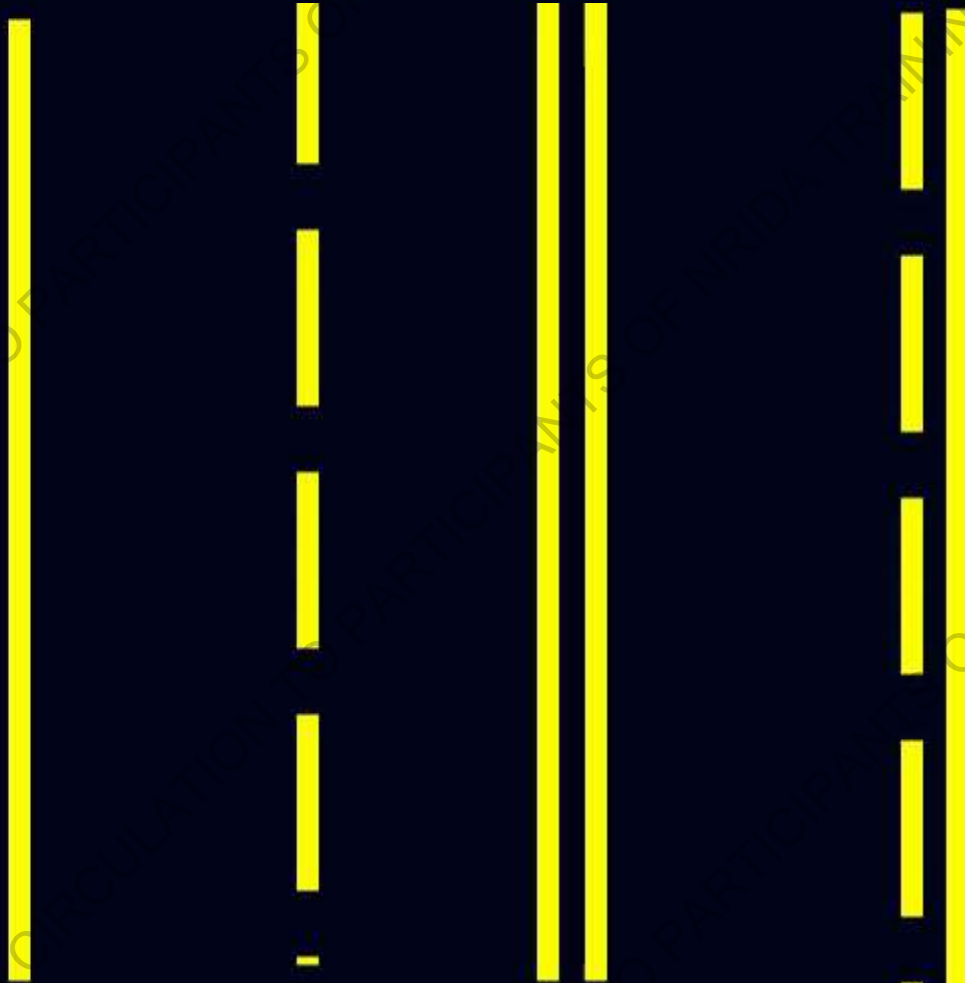
MARKING THE EDGE OF THE
TRAVEL PORTION OF A ROADWAY

DOUBLE SOLID LINES



- **SEPARATES TRAFFIC GOING IN THE SAME DIRECTION**
- **BOTH LANES OF TRAFFIC CAN'T CROSS**

YELLOW LINES



BROKEN YELLOW LINES



- **SEPARATES TRAFFIC GOING IN OPPOSITE DIRECTIONS**
- **BOTH DIRECTIONS MAY CROSS THIS LINE**
- **PASSING IS PERMITTED**



NOT USED IN INDIA

SOLID YELLOW LINE



- SEPARATES TRAFFIC GOING IN OPPOSITE DIRECTIONS
- KEEP TO THE LEFT OF THIS LINE
- DO NOT CROSS **EXCEPT** WHEN TURNING RIGHT OFF OF THE ROADWAY

DOUBLE SOLID YELLOW LINES



- SEPARATES TRAFFIC GOING IN OPPOSITE DIRECTIONS
- KEEP TO THE LEFT
- BOTH DIRECTIONS OF TRAFFIC MAY NOT CROSS
- BOTH DIRECTIONS CANNOT PASS

SOLID YELLOW WITH A YELLOW BROKEN LINE



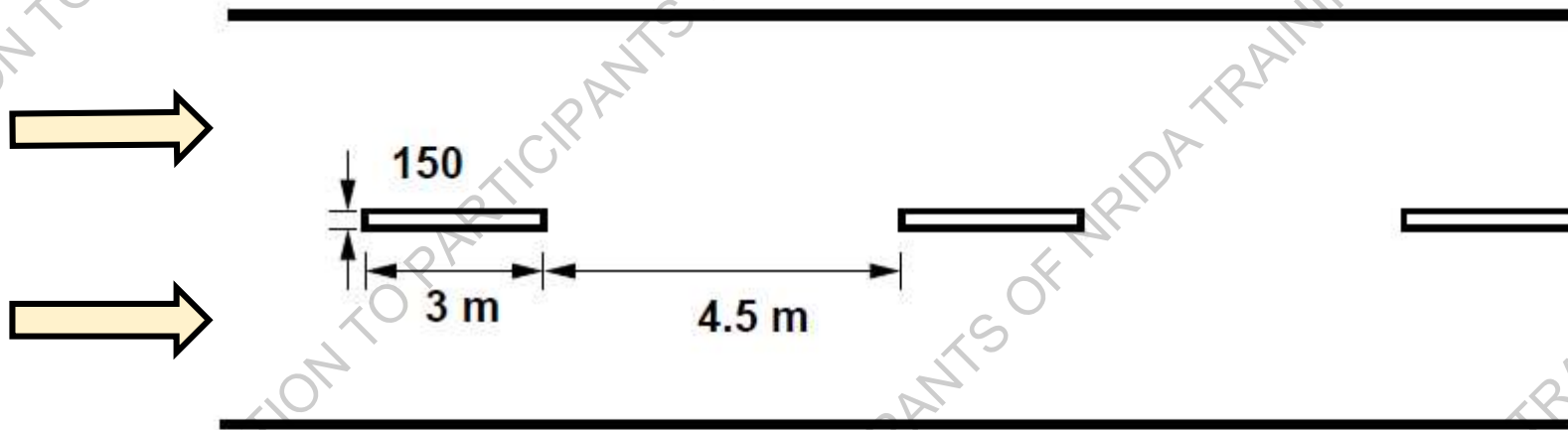
- TRAFFIC WITH THE SOLID LINE CANNOT PASS
- TRAFFIC WITH THE BROKEN LINE MAY PASS

NOT USED IN INDIA

Longitudinal Markings

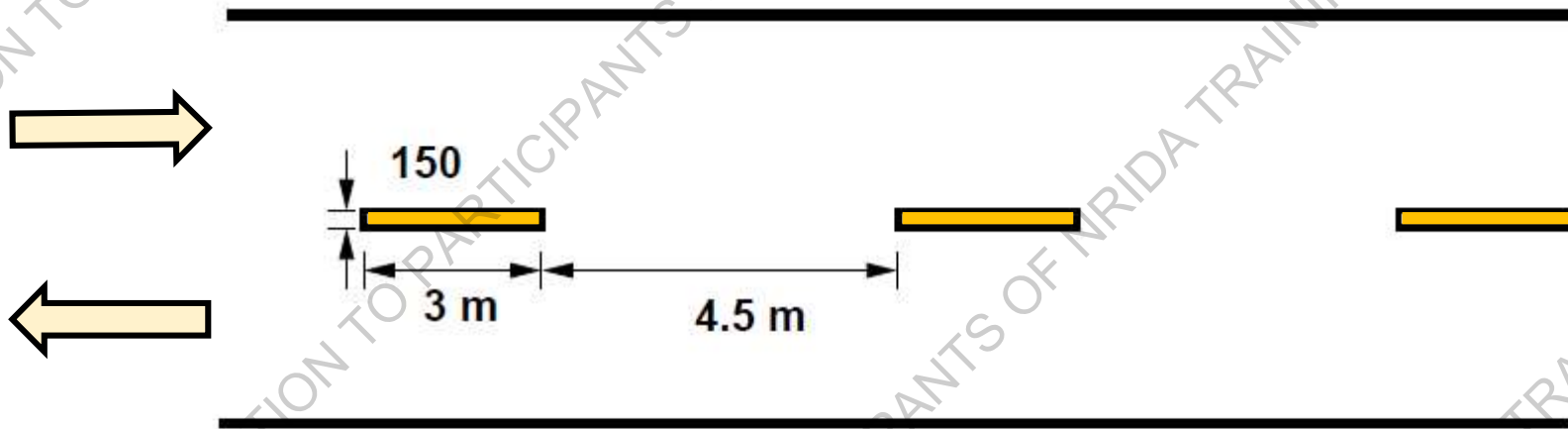
- **Center Line**
- **Traffic lane Lines**
- **No Passing Lines**
- **Warning Lines**
- **Edge Lines**

BROKEN WHITE CENTER LINE / TRAFFIC LANES



Centre line marking for a two lane road

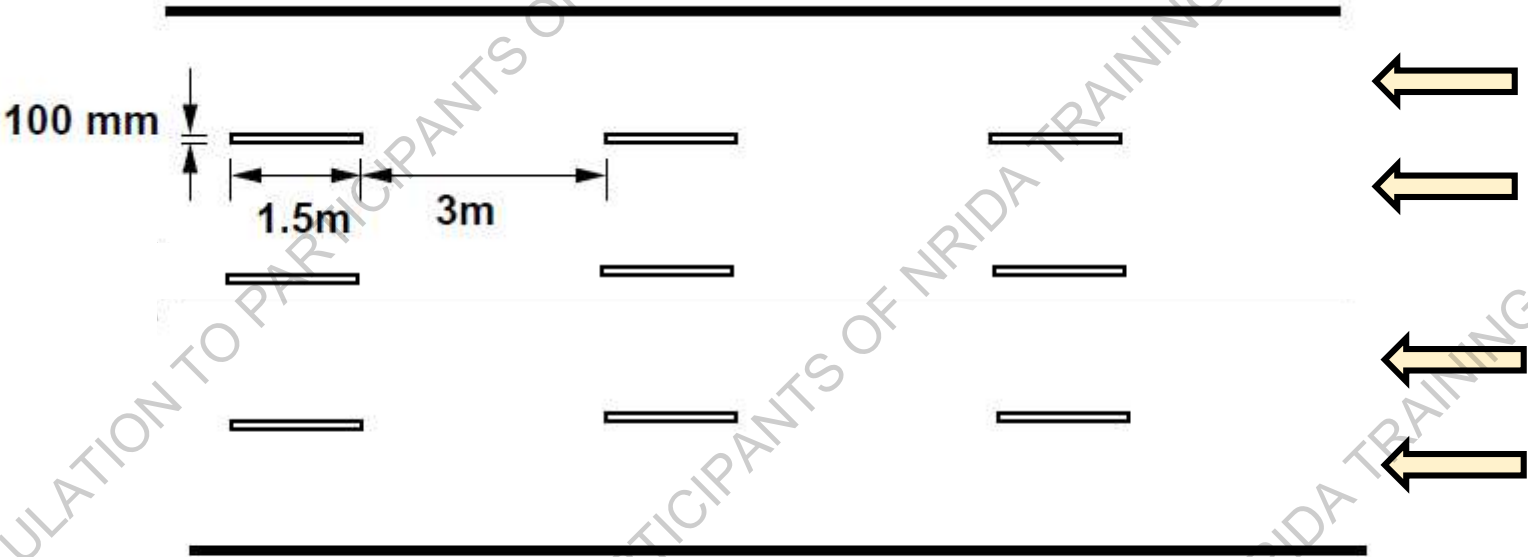
**BROKEN YELLOW
CENTER LINE / TRAFFIC LANES**



Centre line marking for a two lane road

NOT USED IN INDIA

BROKEN WHITE TRAFFIC LANE LINES



line marking for four lane road

BROKEN WHITE – TRAFFIC LANE LINES
SOLID YELLOW – CENTER LINE

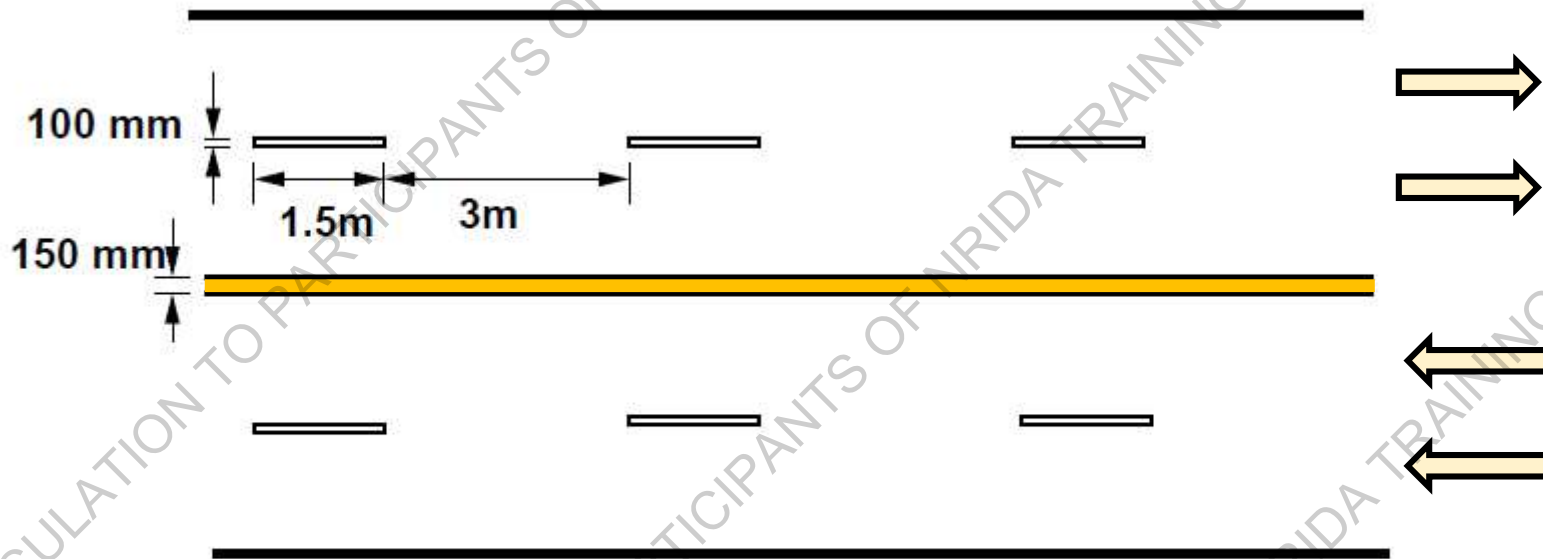
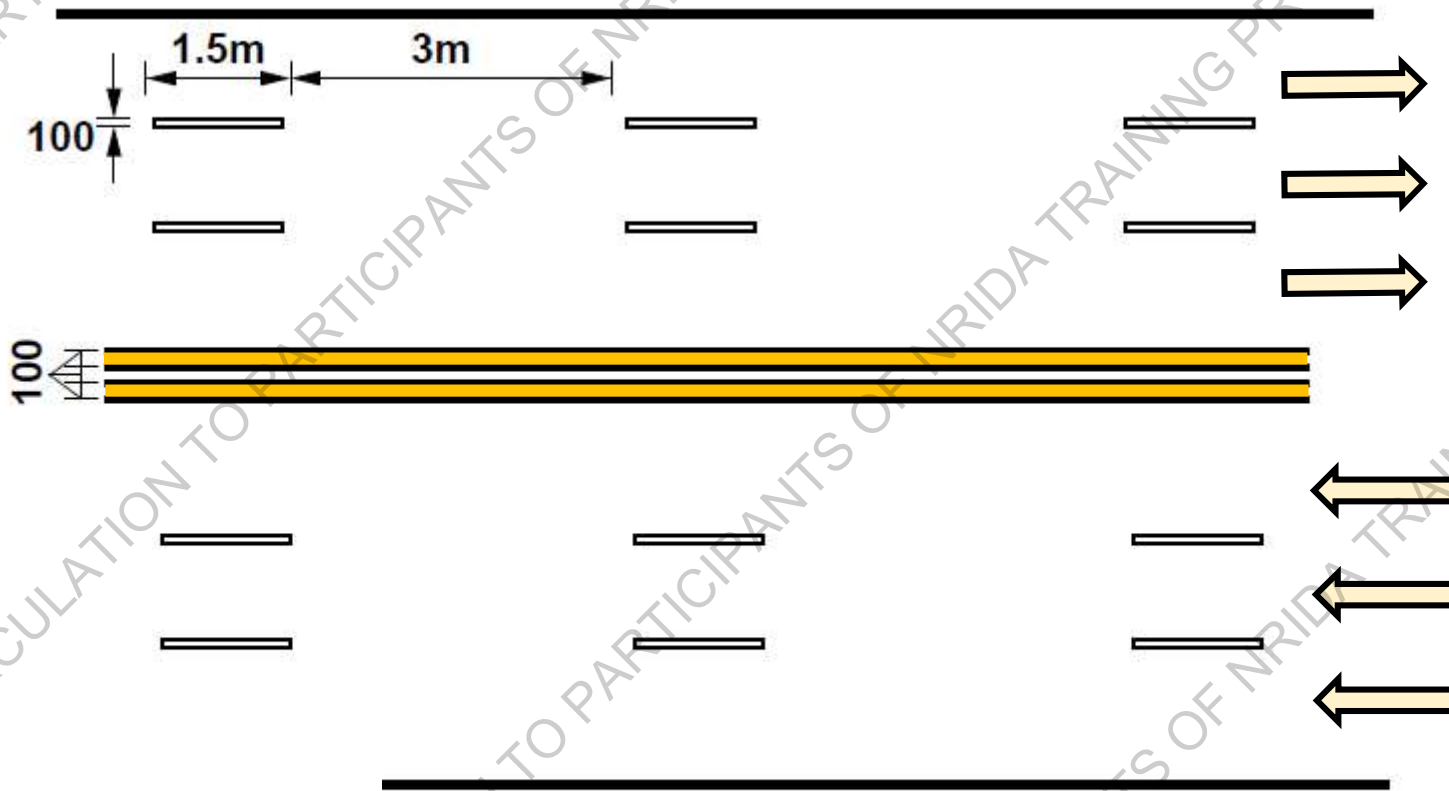


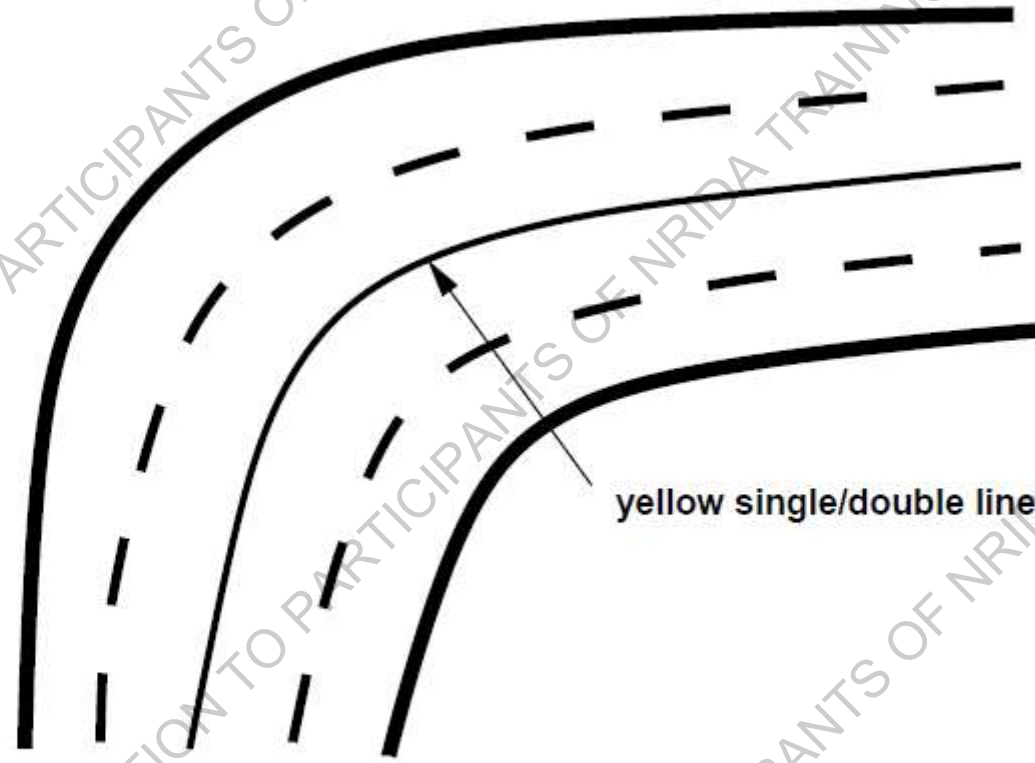
Figure 37:4: Centre barrier line marking for four lane road

BROKEN WHITE – TRAFFIC LANE LINES
SOLID YELLOW – CENTER LINE



Double solid line for a six lane road

**SOLID YELLOW LINE
NO PASSING LINE**



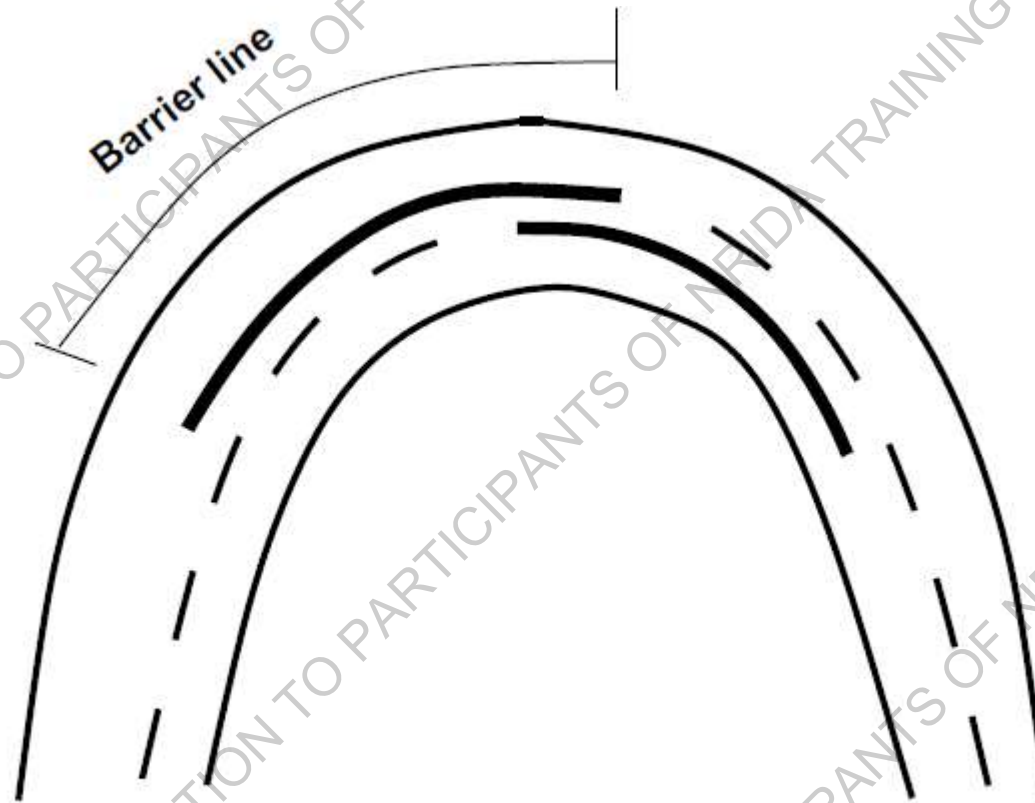
yellow single/double line

Barrier line marking for a four lane road

**SOLID YELLOW LINE
NO PASSING LINE**

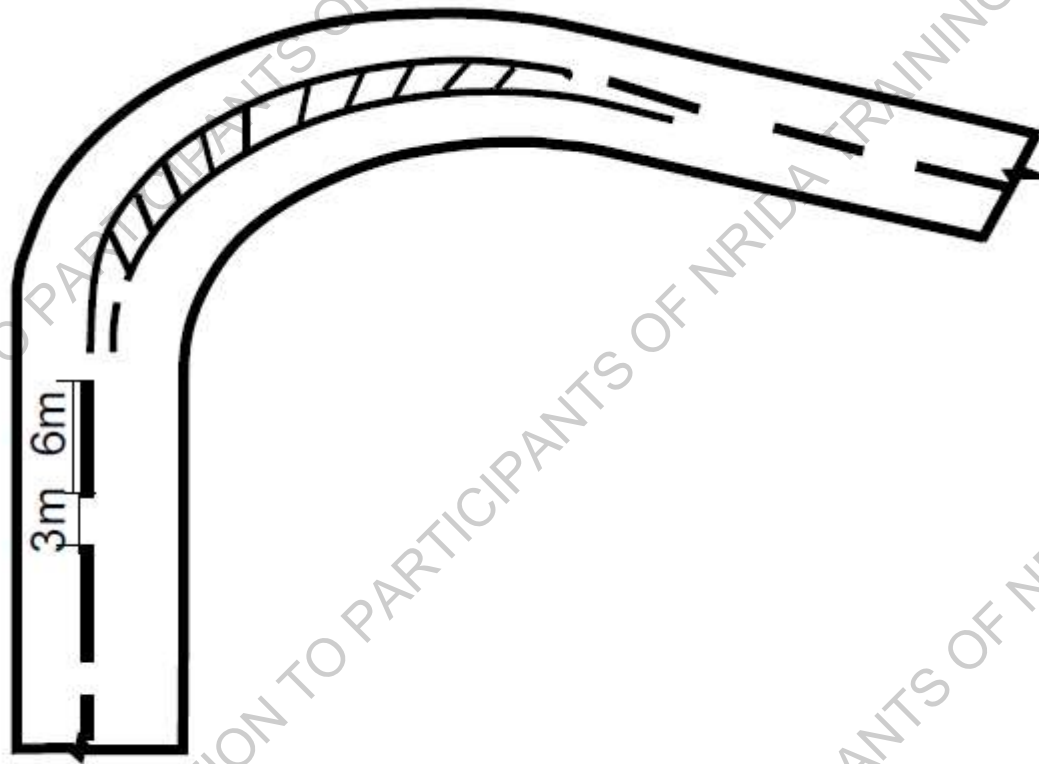


**STAGGERED SOLID YELLOW LINE
NO PASSING LINE**



No passing zone marking at horizontal curves

WHITE LADDER MARKING WARNING LINE



Warning line marking for a two lane road

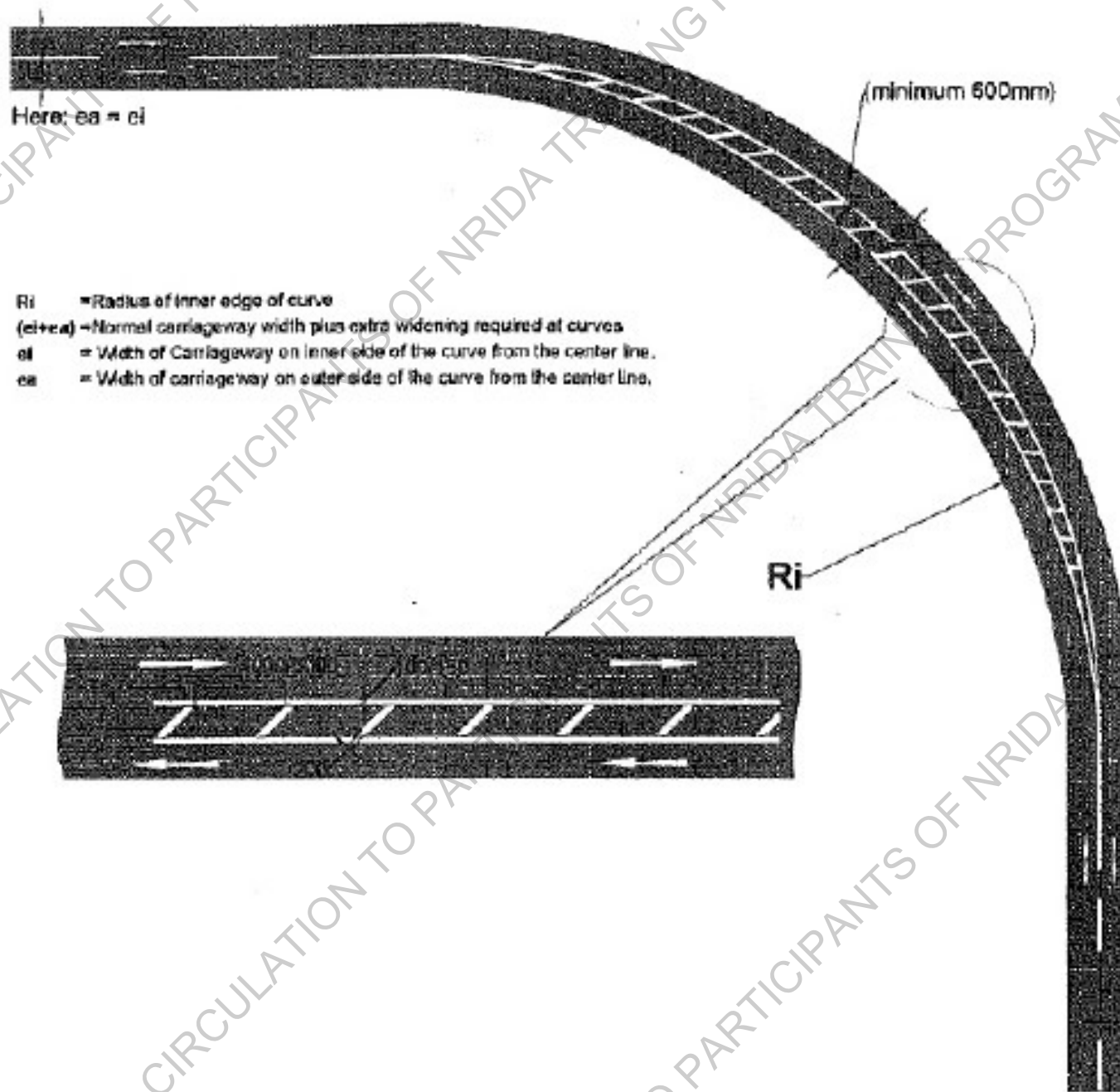


Fig. 4.3 Ladder Hatching as Center Line

WHITE LADDER MARKING WARNING LINE



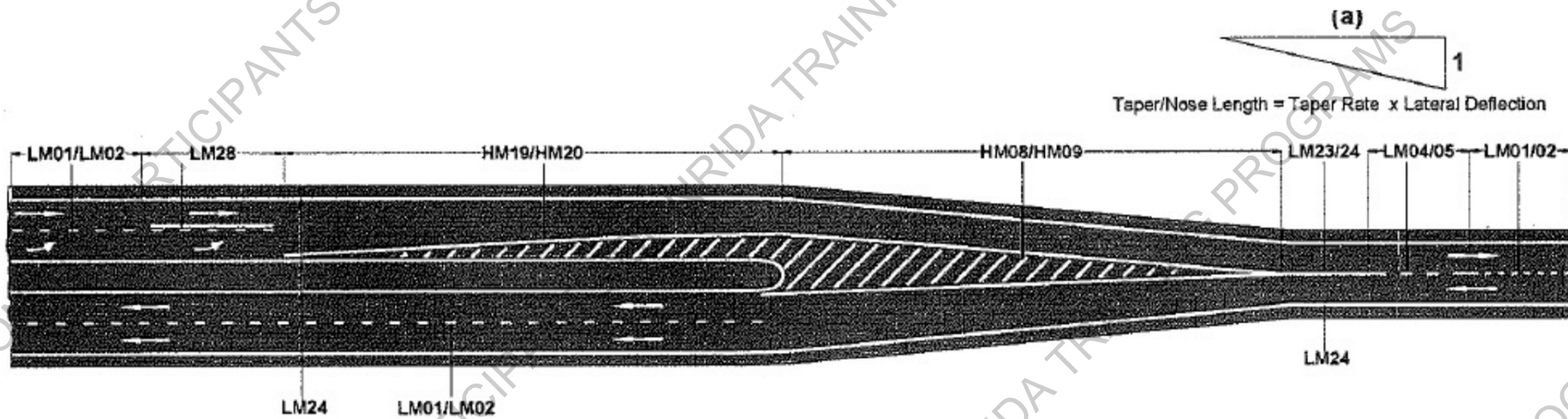


Fig. 7.5 Four Lane to Two Lane Transition (Concentric)

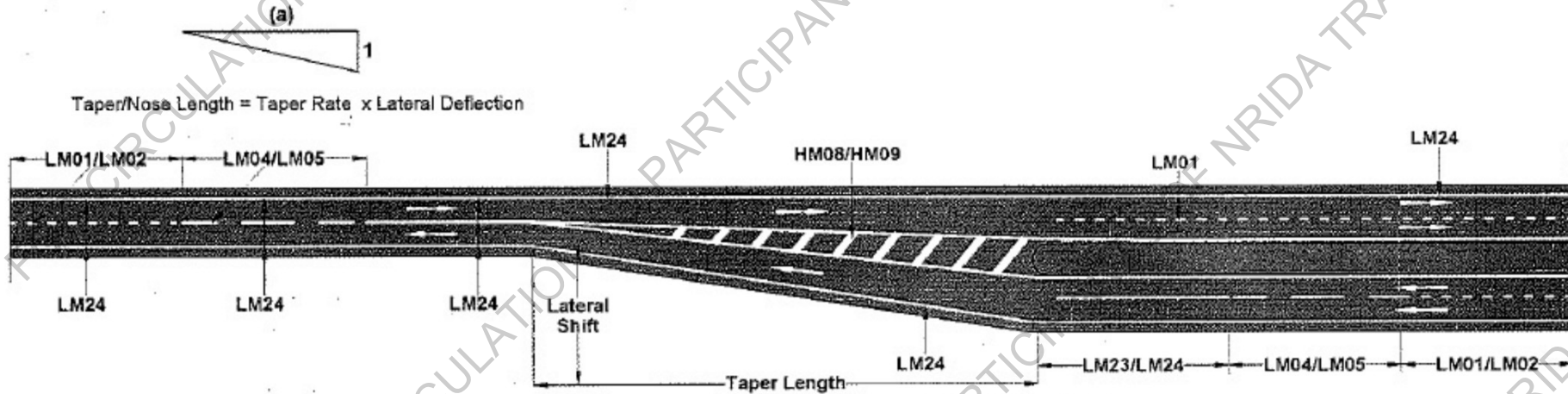
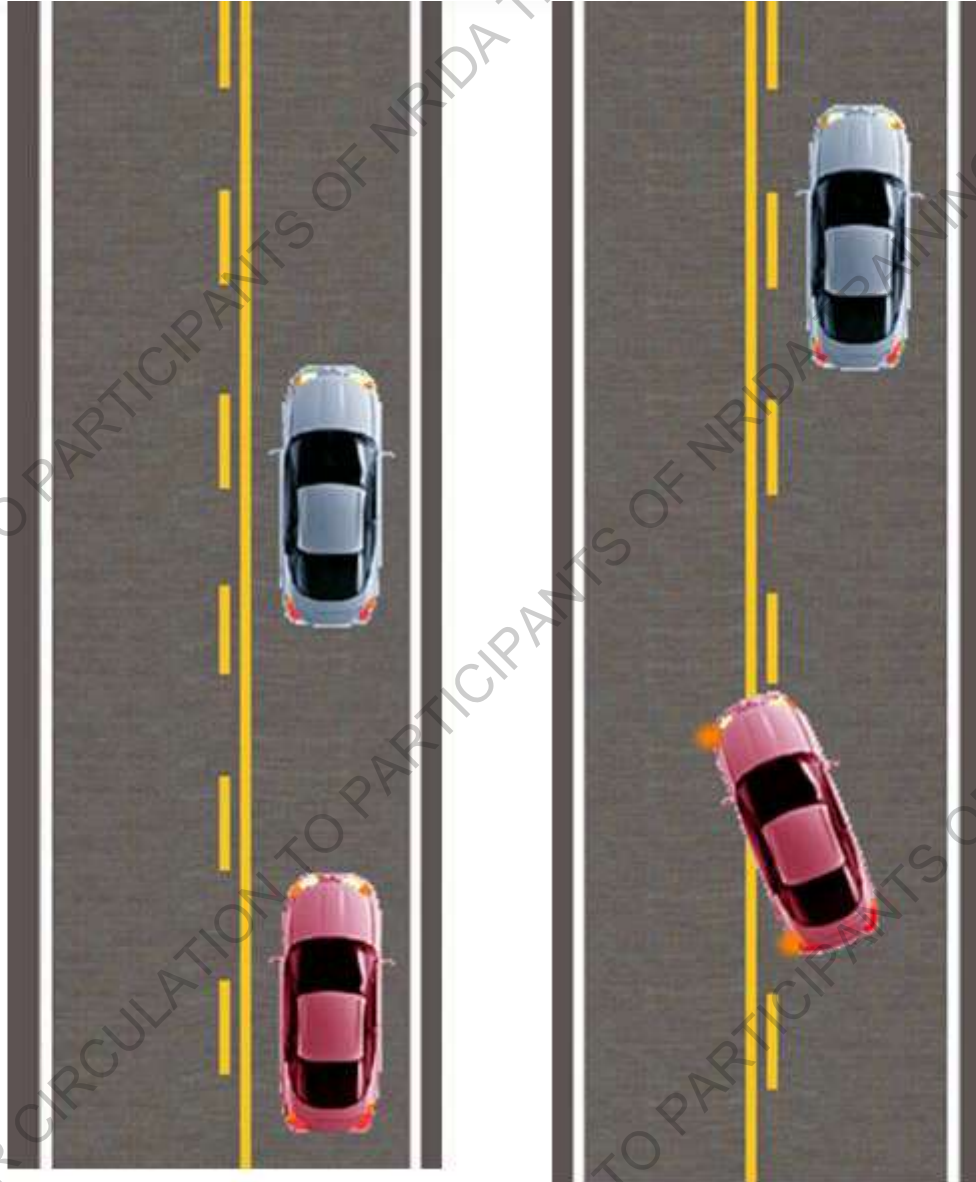


Fig. 7.6 Four Lane to Two Lane Transition (Eccentric)

SOLID-BROKEN YELLOW LINE PARTIAL PASSING LINES



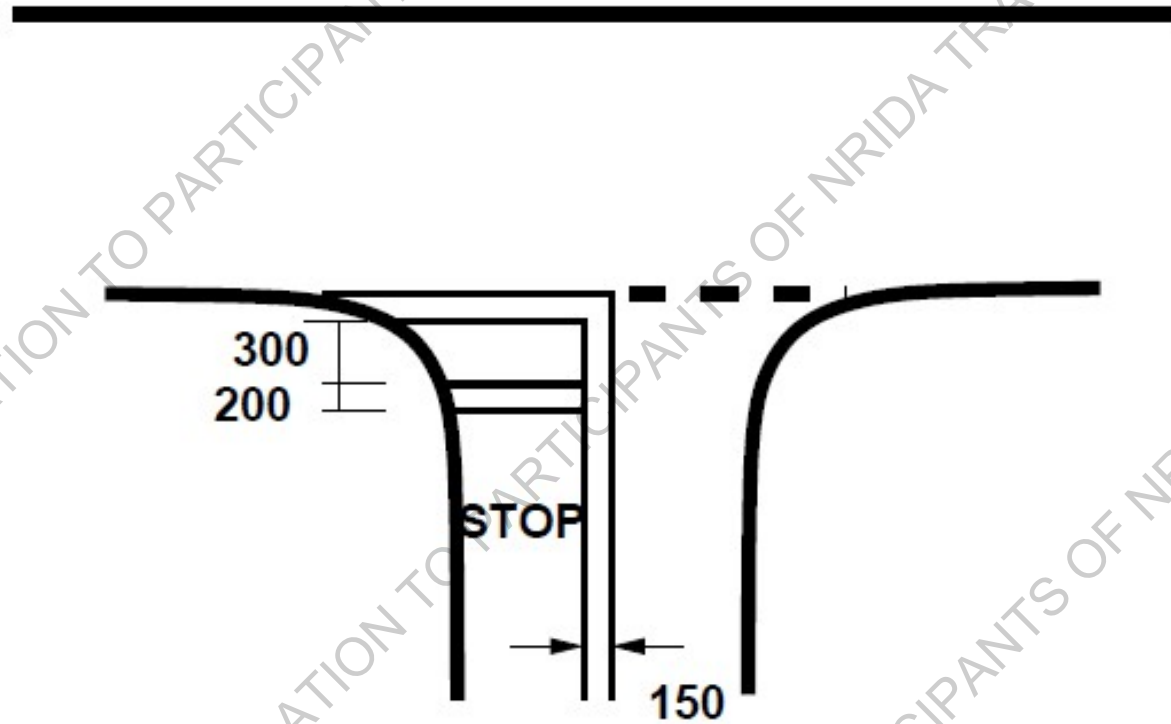
SOLID-BROKEN YELLOW LINE PARTIAL PASSING LINES



Transverse Markings

- Stop line
- Chevron
- Pedestrian crossings
- Bicycle track crossings
- Directional arrows

Stop Line



Chevron Markings

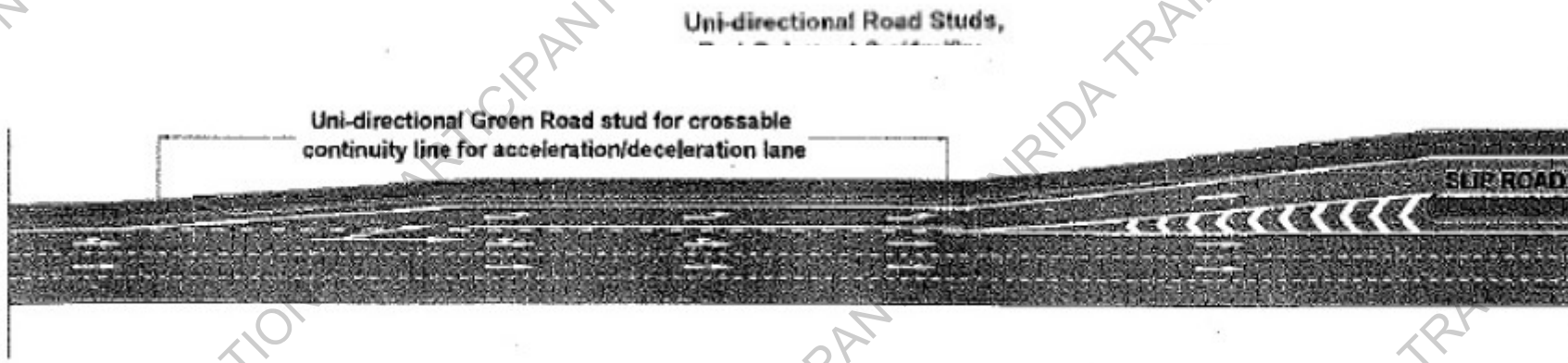
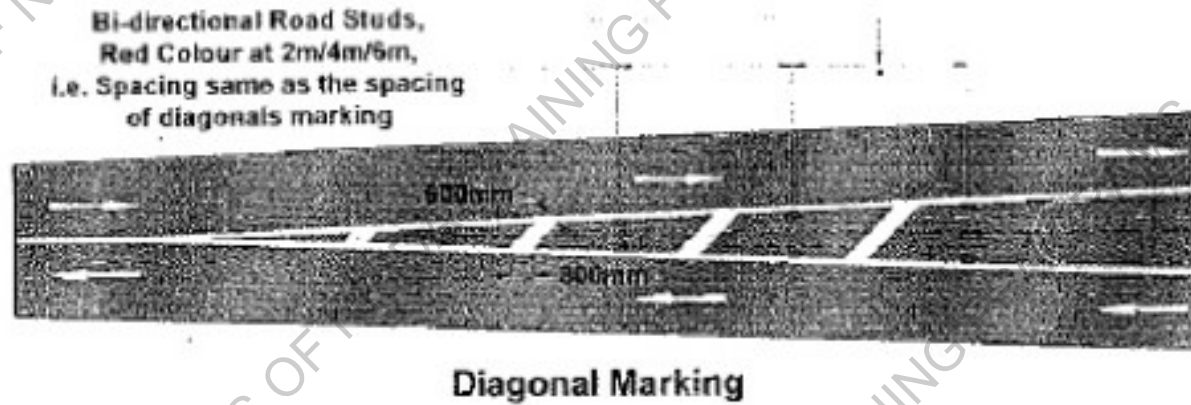


Fig. 5.4 Road Studs for Crossable Continuity Lines



Fig. 5.3 Road Studs for Diagonal & Chevron Markings

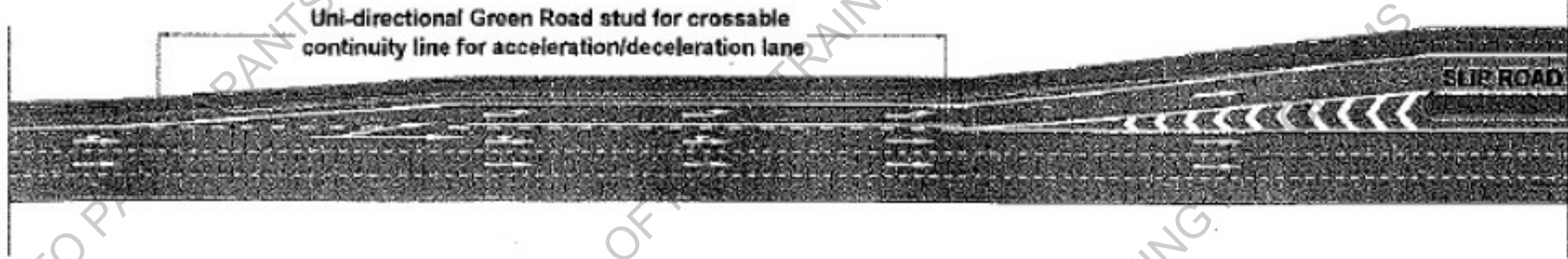


Fig. 5.4 Road Studs for Crossable Continuity Lines

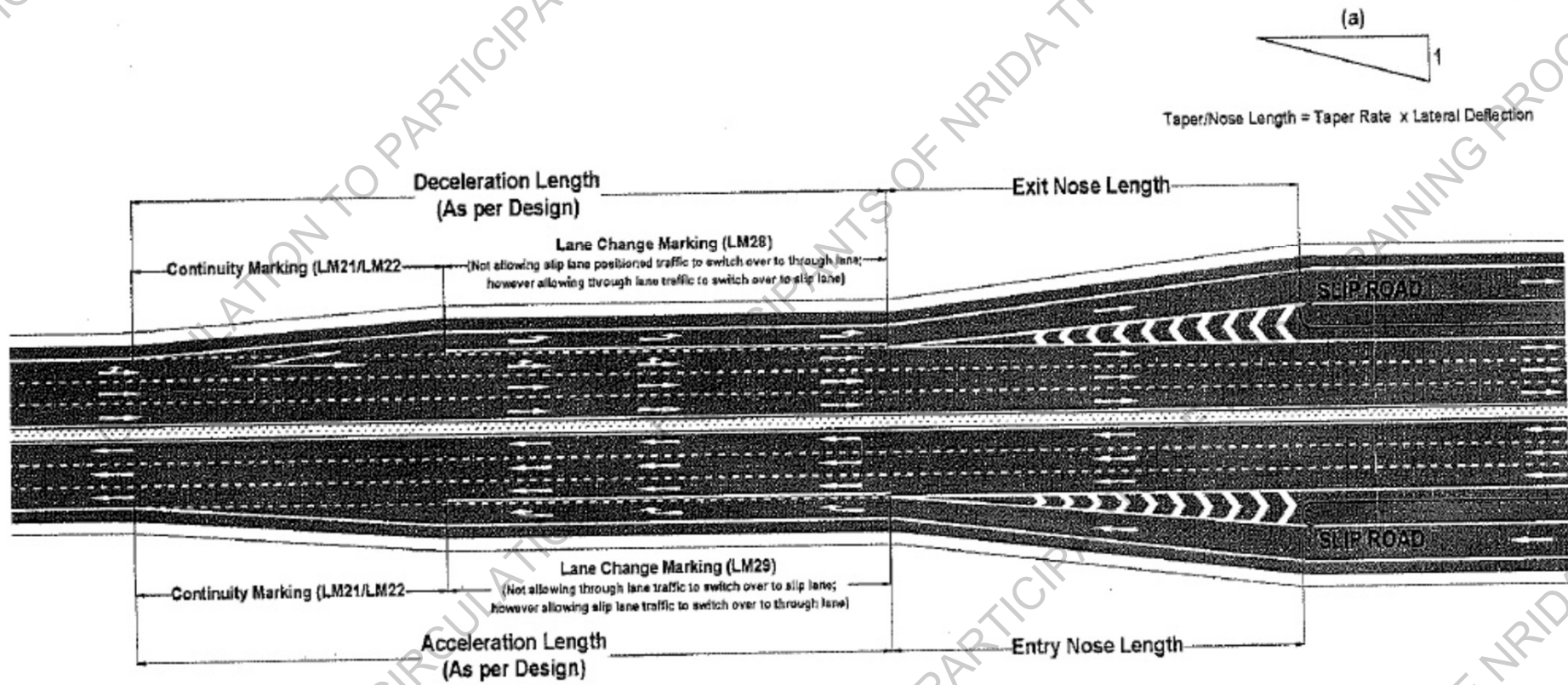
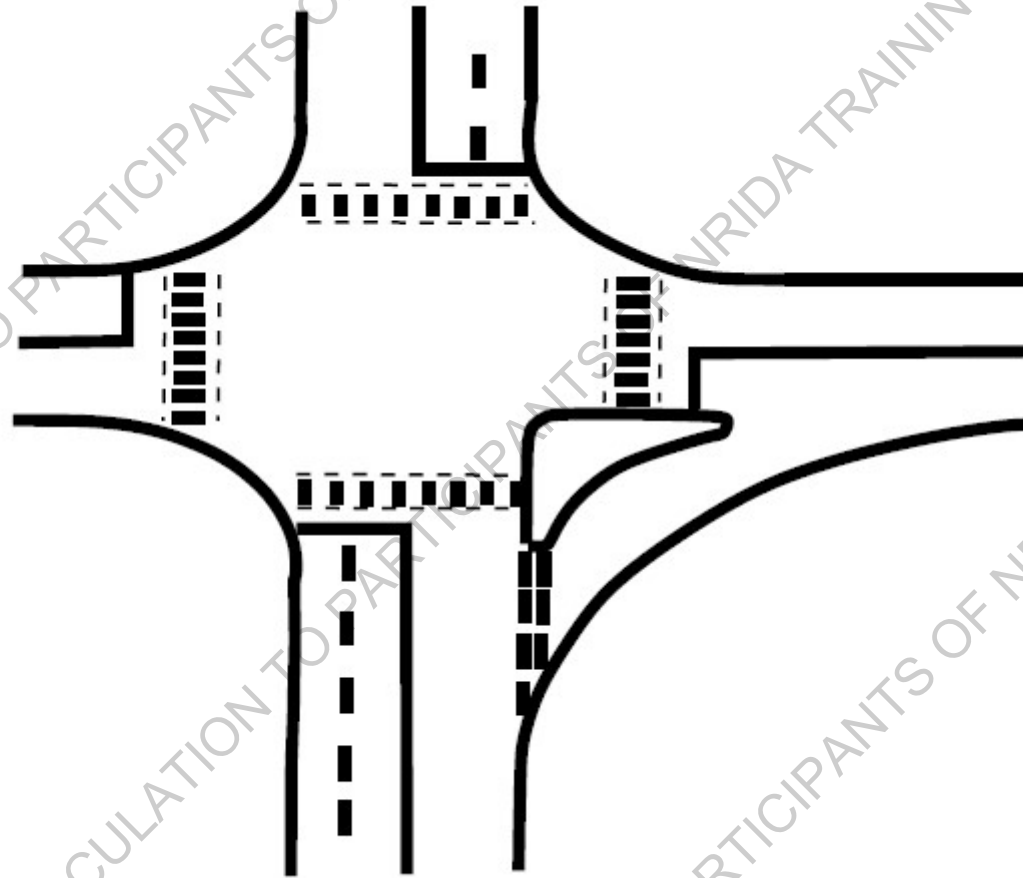
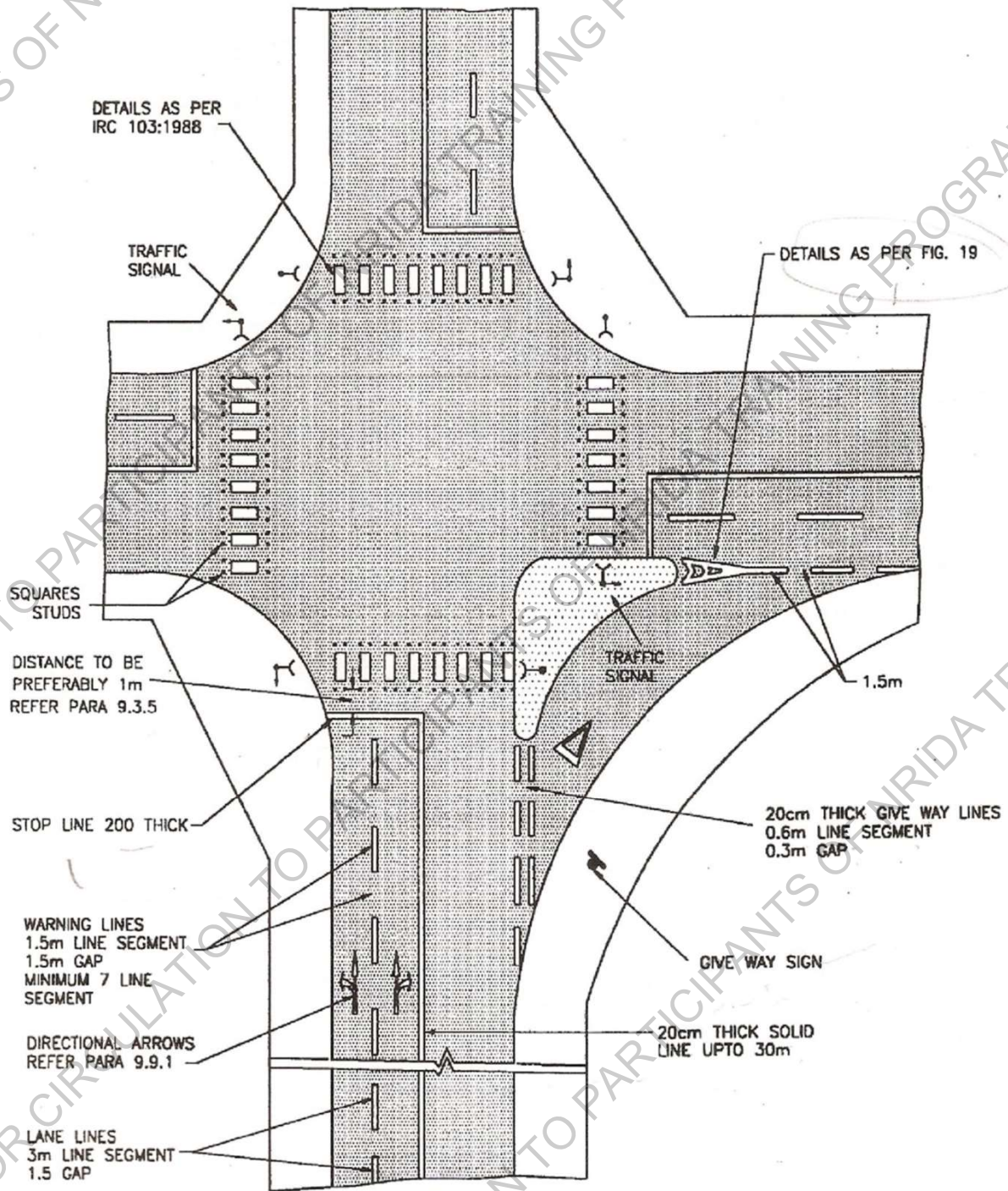


Fig. 7.2 Lane Change Marking and Nose Length in Multilane Highways

Pedestrian Crossing



FOR CIRCULATION TO PARTICIPANTS OF NRIDA TRAINING PROGRAMS



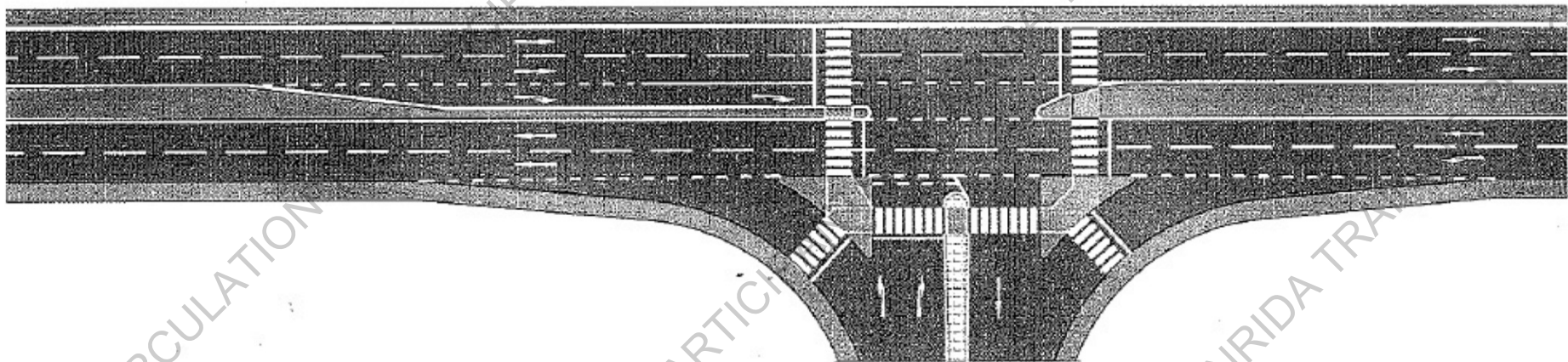
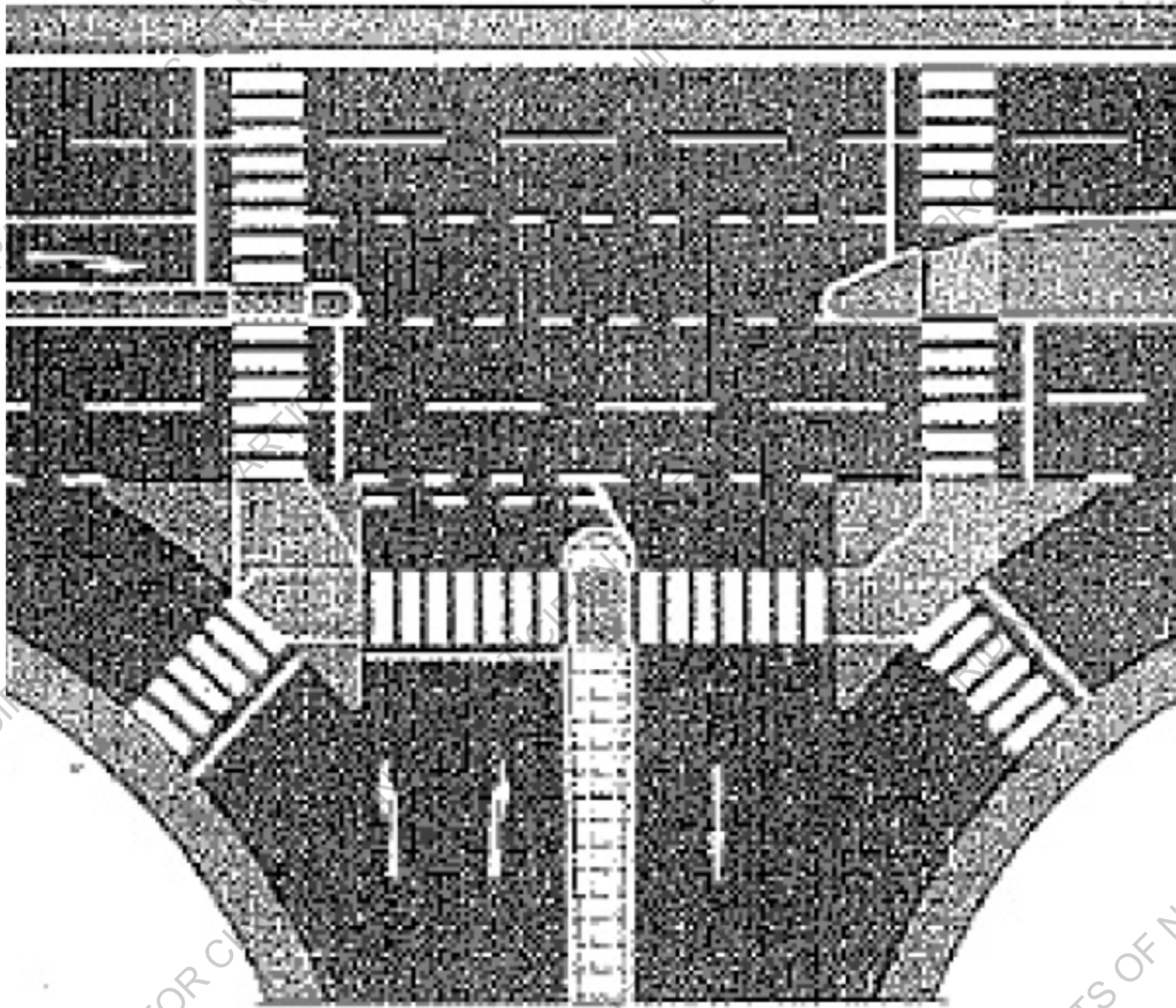
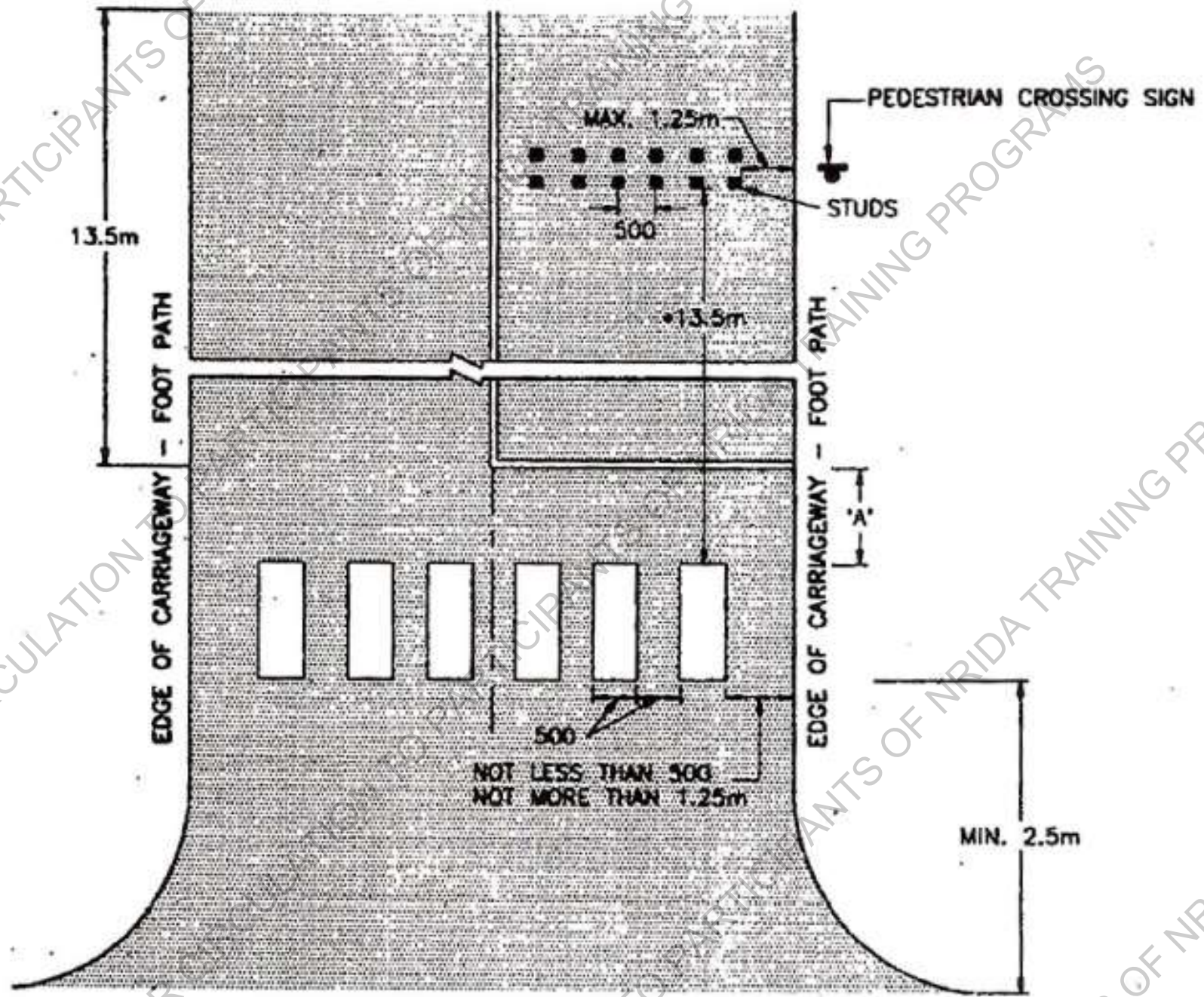
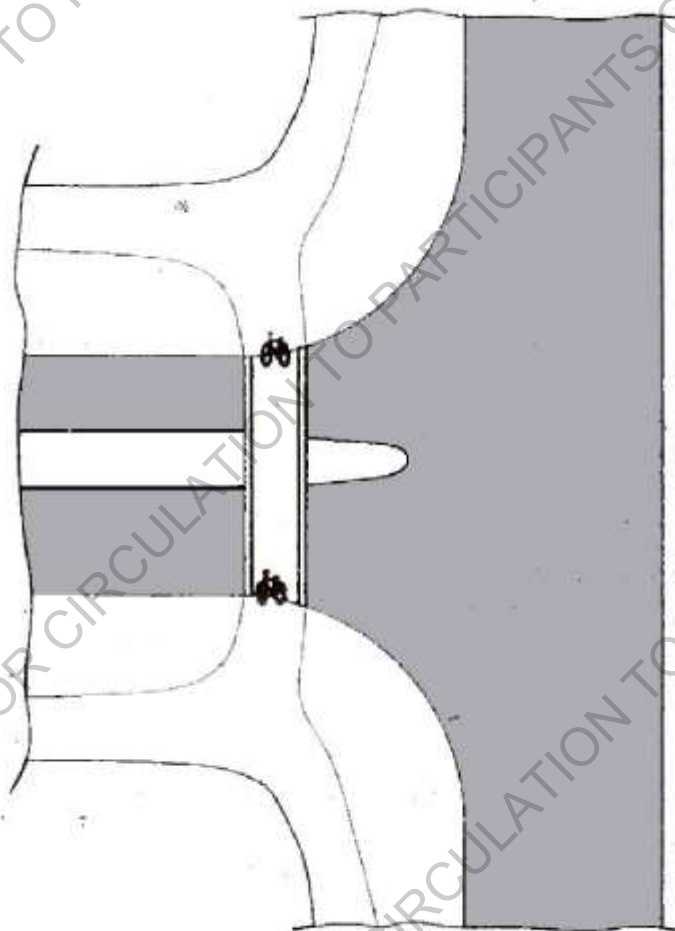


Fig. 11.4 Pedestrian Crossing Marking on Priority Junction

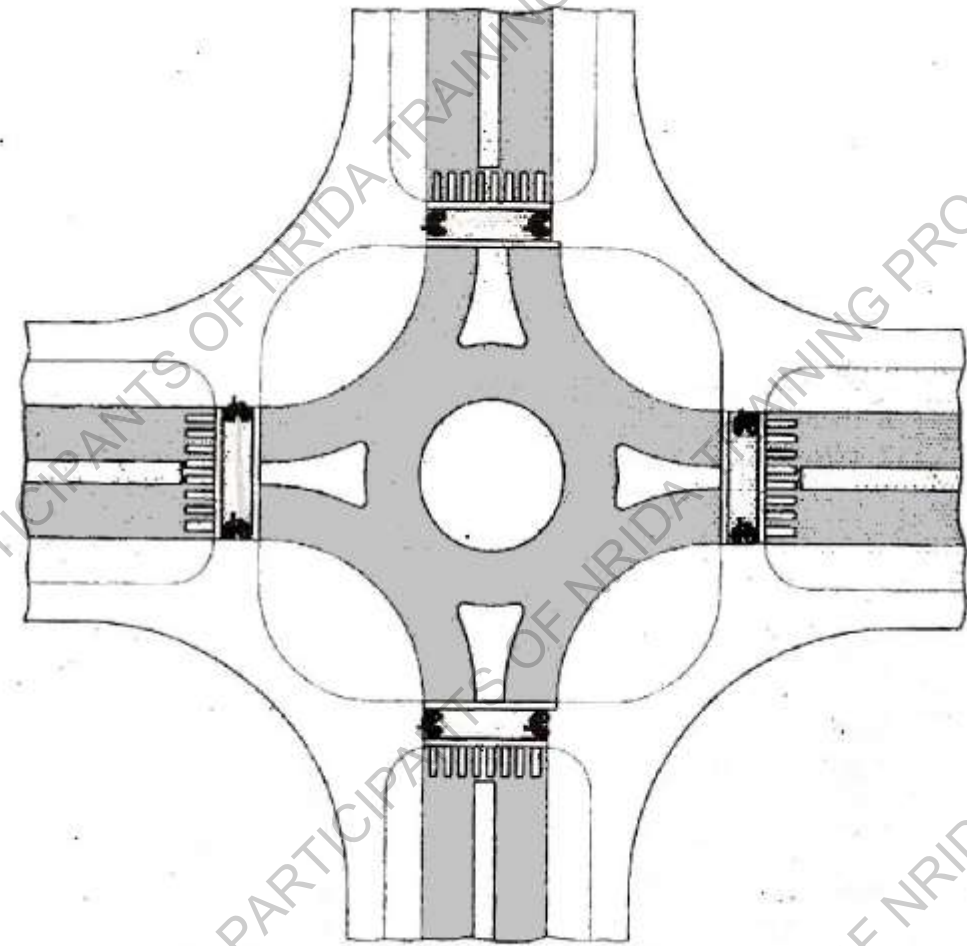




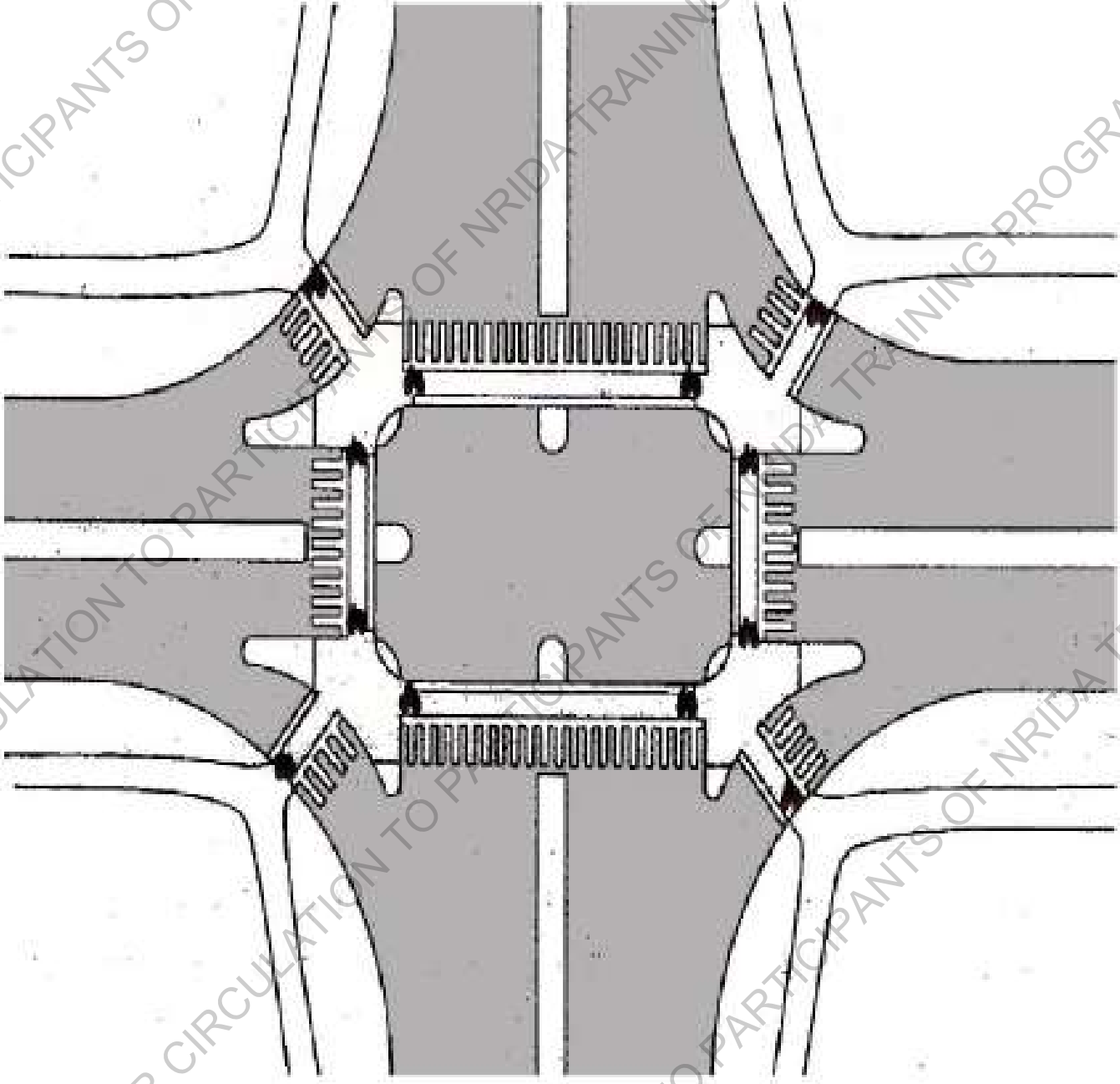
Bicycle Track Crossing



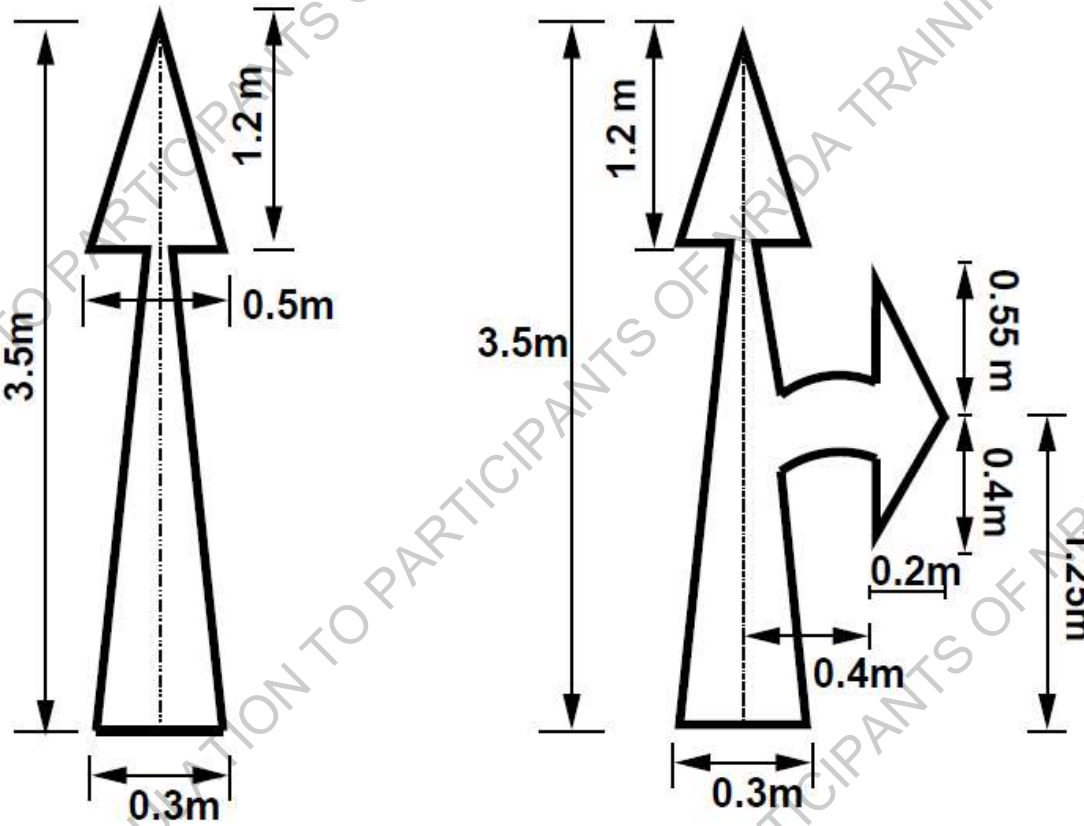
At the road with central channeliser



At roundabout



Directional Arrows



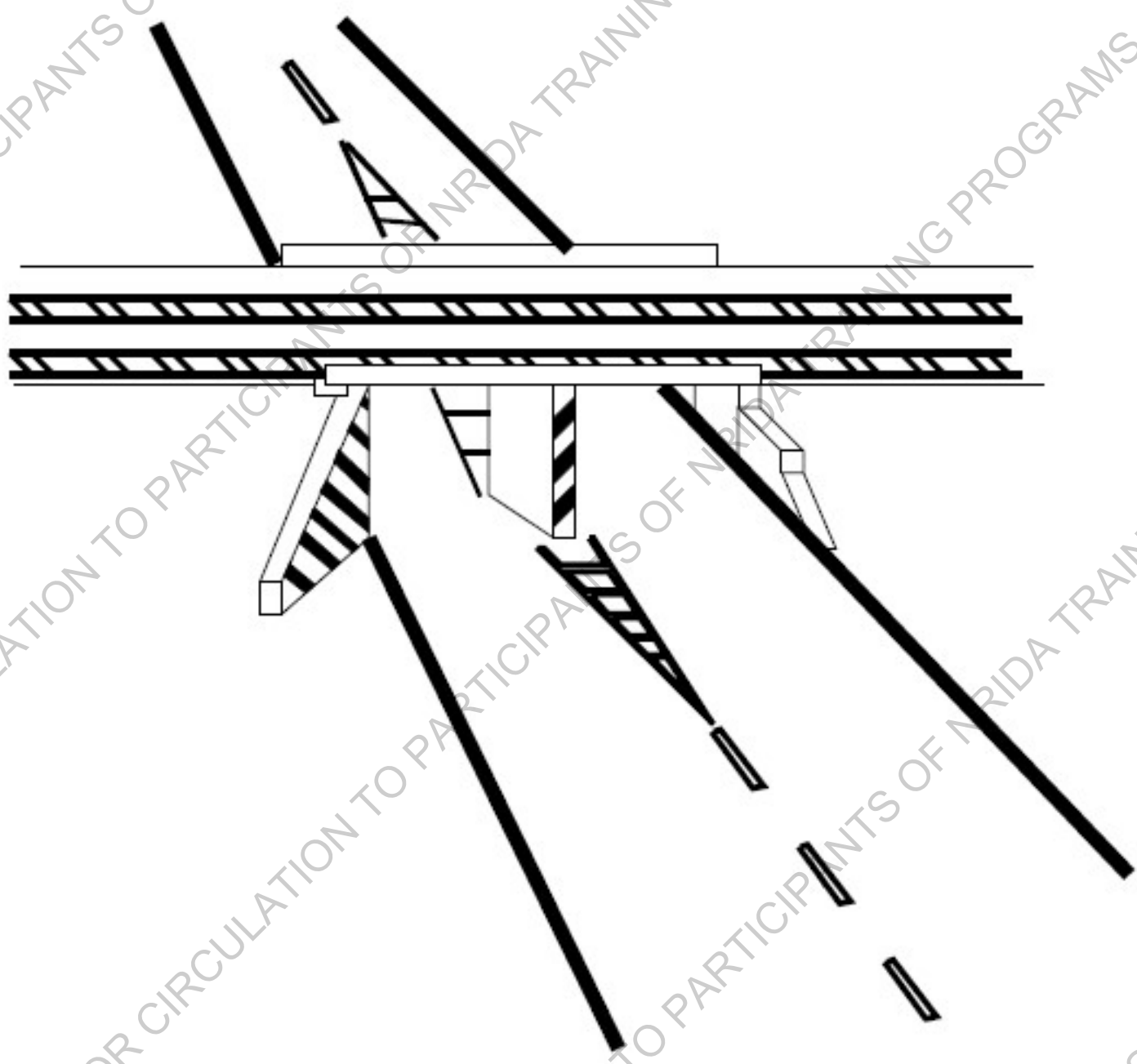
Classification

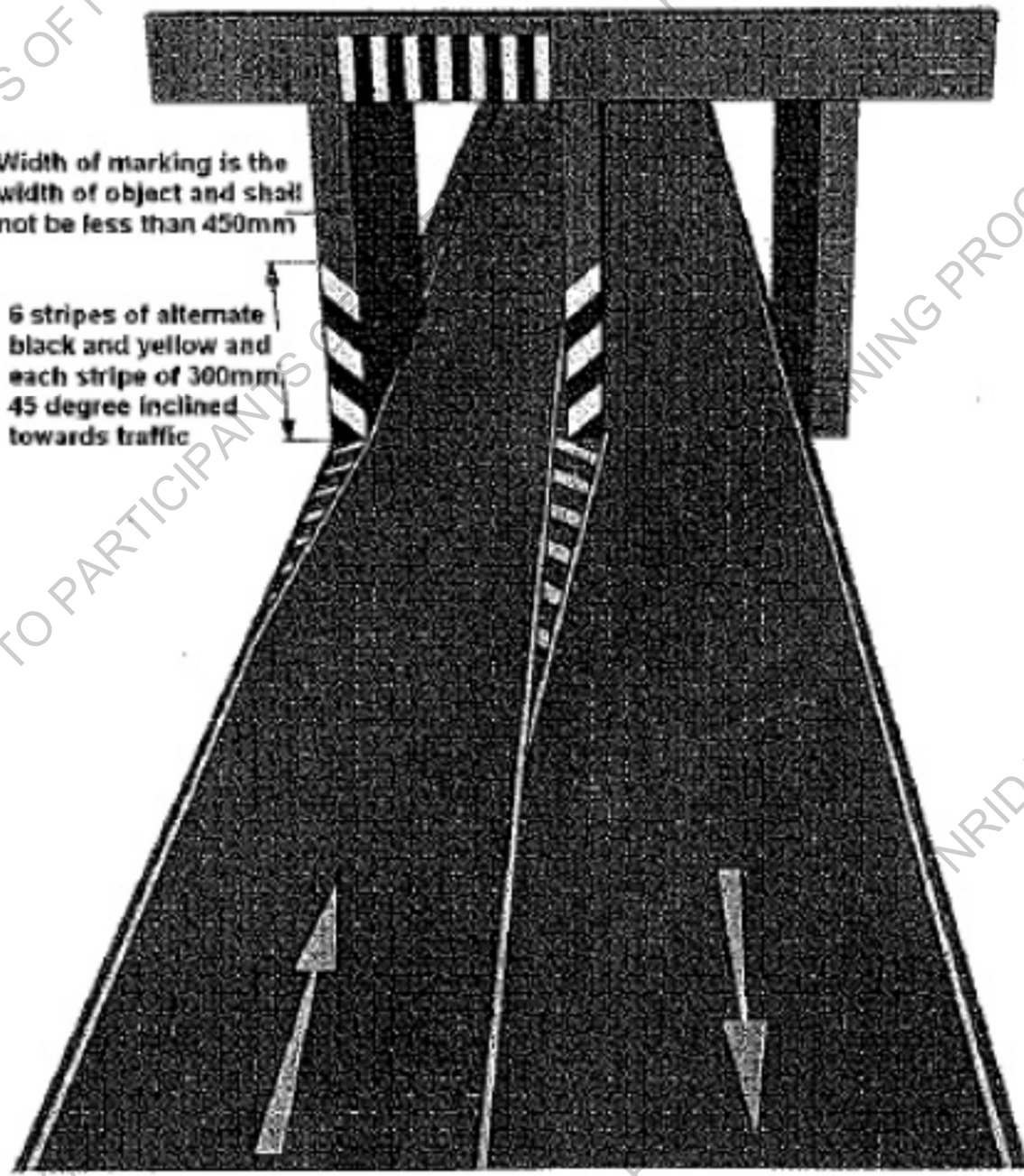
1. Longitudinal markings
2. Transverse markings
3. Object markings
4. Word messages
5. Marking at hazardous locations

Object Markings (Obstructions)

- Piers, Abutments, Culvert head walls etc
- Mark with alternate black and white stripes at a forward angle of 45° with respect to the direction of traffic
- Poles close to the carriageway should be painted in alternate black and white up to a height of 1.25m above the road level
- Kerbs of all islands shall be painted with alternating black and white stripes of 500 mm wide

FOR CIRCULATION TO PARTICIPANTS OF NRIDA TRAINING PROGRAMS





Width of marking is the width of object and shall not be less than 450mm

6 stripes of alternate black and yellow and each stripe of 300mm 45 degree inclined towards traffic

Fig. 14.1

Kerb Marking

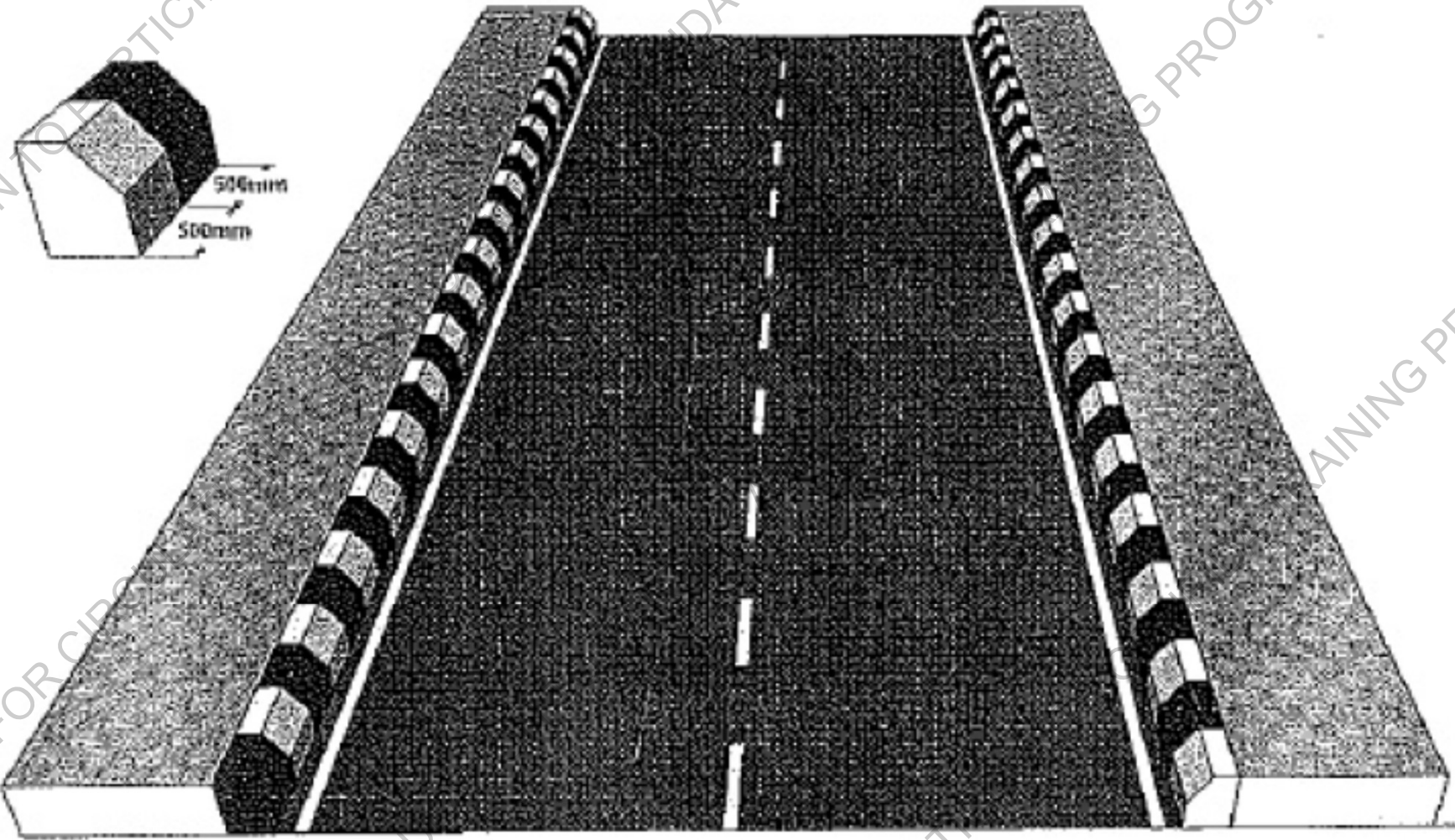


Fig. 14.3

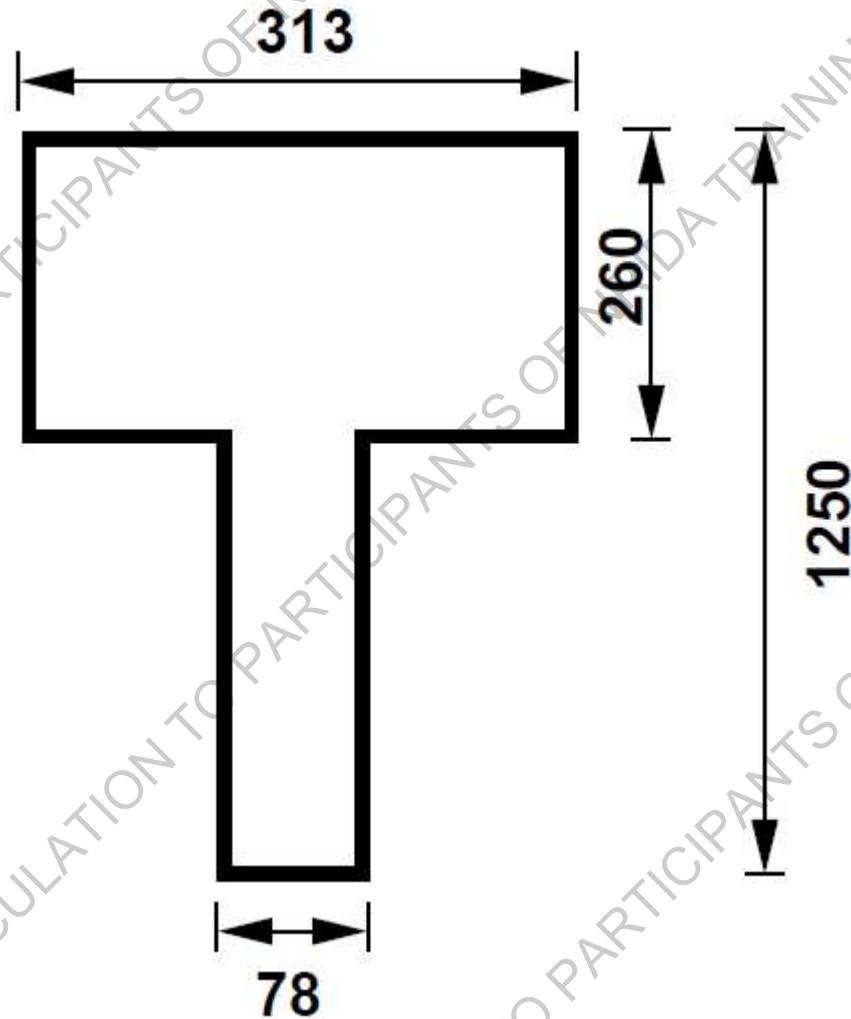
Classification

1. Longitudinal markings
2. Transverse markings
3. Object markings
4. **Word messages**
5. **Marking at hazardous locations**

Word Messages

- Information to guide, regulate, or warn the road user is painted on road surface
- Usually capital letters
- Legends should be as brief as possible
- STOP, SLOW, SCHOOL, RIGHT TURN ONLY etc
- Letters are elongated so that driver looking at the road surface at a low angle can read them easily

Word Messages (Letter "T")

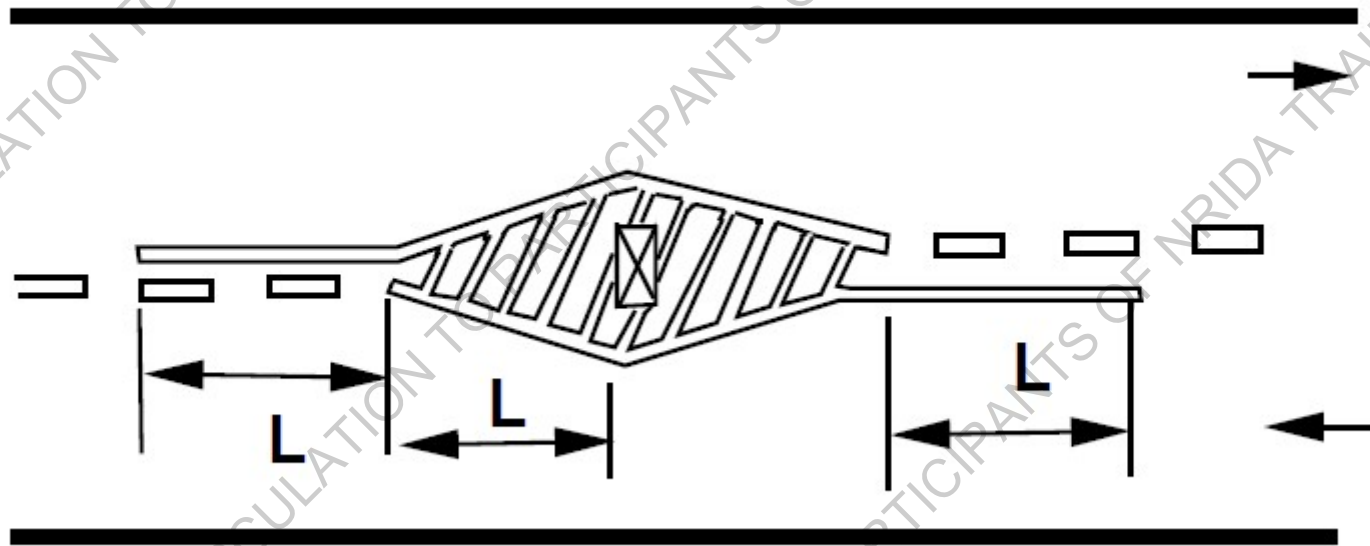


Classification

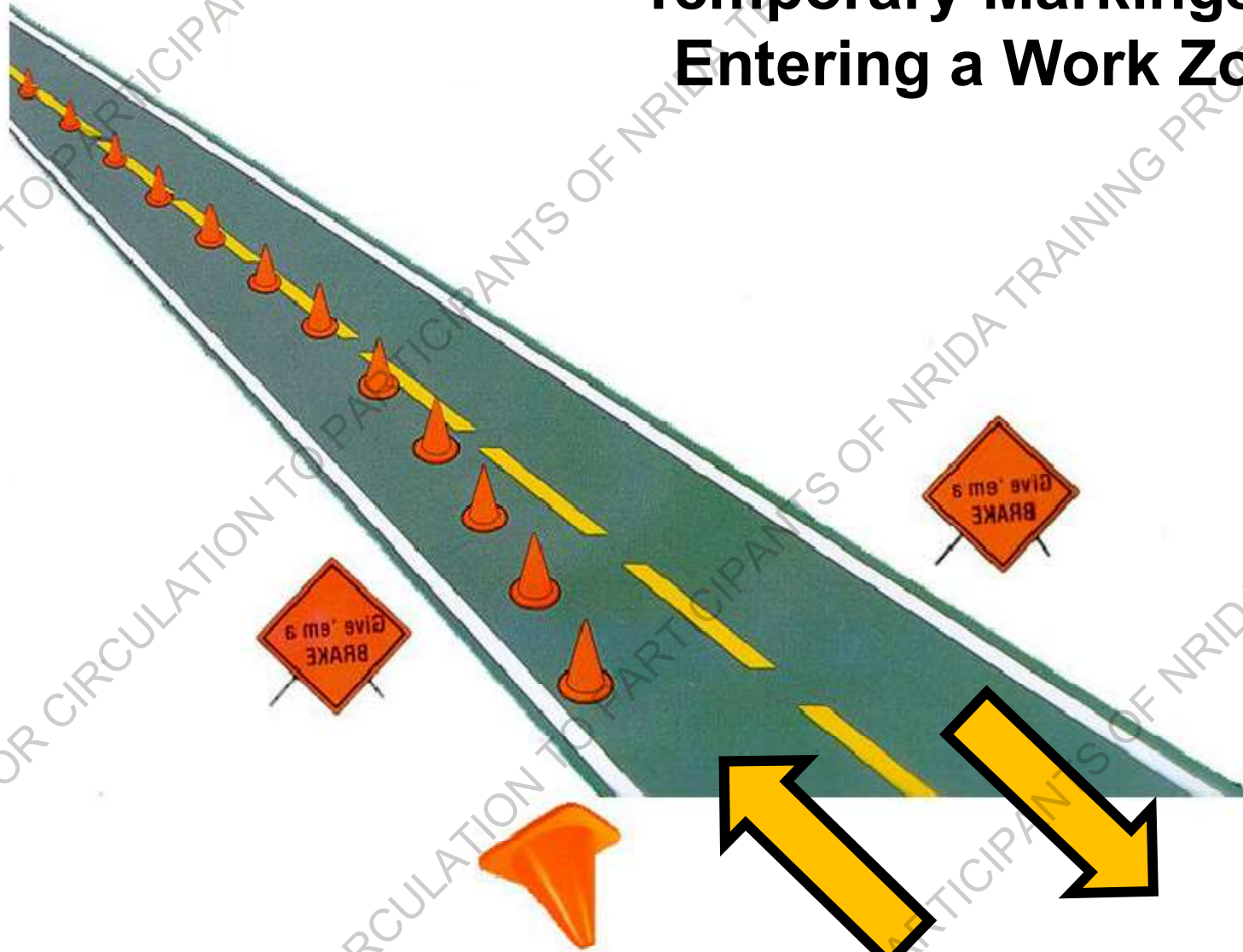
1. Longitudinal markings
2. Transverse markings
3. Object markings
4. Word messages
5. **Marking at hazardous locations**

Hazardous Location

- Permeant Hazard
- Temporary Hazard



Temporary Markings for Entering a Work Zone

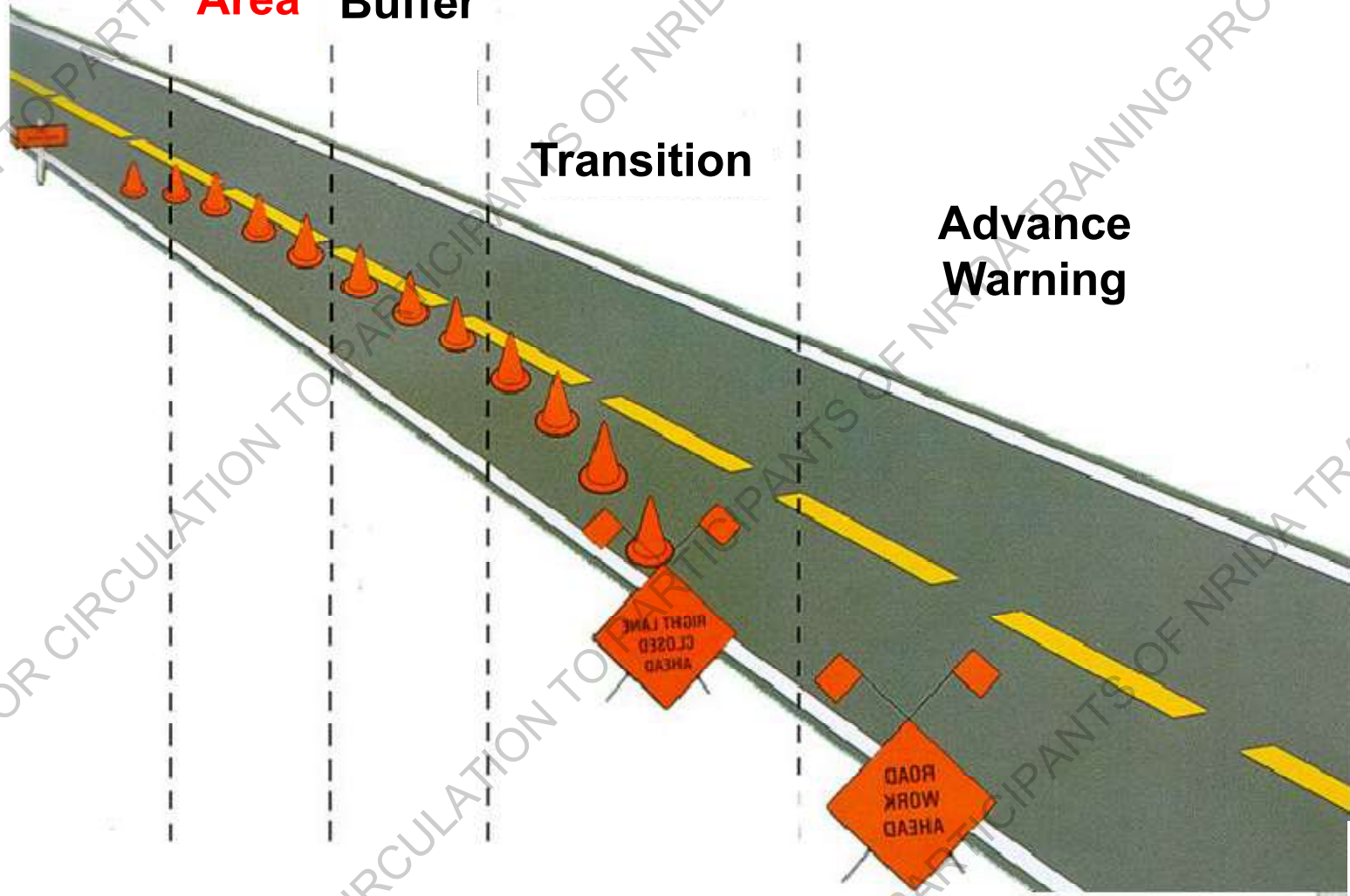


Work Zone

END **Work Area** **Buffer**

Transition

Advance Warning



Ghost Islands

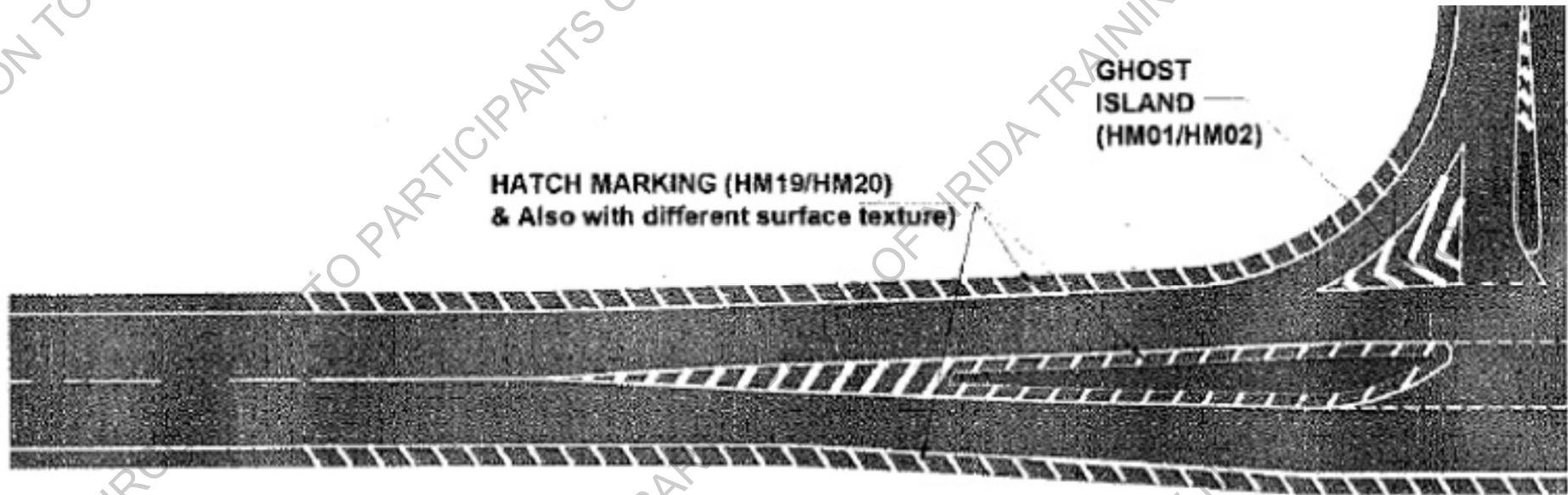


Fig. 9.5 Hatch Marking and Ghost Island

PRACTICES TO BE AVOIDED



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**Refer IRC 35 – 2015
Annexures
(Page 101)**