

**PART R81****INSTALLATION OF GUIDE POSTS AND DELINEATORS****CONTENTS**

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Attachment R81A: Overtaking Lane – Merge Area Delineation Treatment (Drawing TES 12408)

**1. GENERAL**

- .1 This Part specifies the requirements for the installation of semi-flexible and flexible (buried or driven) guide posts and delineators.
- .2 Guide posts and delineators must comply with Part R80 "Supply of Guide Posts and Delineators".
- .3 The following definitions apply:  
**"Flexible guide post"** means a guide post which deflects when impacted by a vehicle and then returns to a vertical position, without maintenance intervention.  
  
**"Semi-flexible guide post"** means a guide post which fails by bending when impacted by a vehicle and can be straightened with maintenance intervention.
- .4 Document(s) referenced in this Part are listed below:  
AS 1742.2 Manual of Uniform Traffic Control Devices – Traffic Control Devices for General Use

**2. INSTALLATION OF GUIDE POSTS**

- .1 Guide posts must be installed vertically and in accordance with:
  - (a) the drawings (if any)
  - (b) the manufacturer's instructions;
  - (c) the spacing requirements in AS 1742.2; and
  - (d) the mandatory offset distance requirement in the Table 2.1.

<b>TABLE 2.1 GUIDEPOST OFFSET</b>			
<b>SEALED SHOULDERS</b>		<b>UNSEALED SHOULDERS</b>	
<b>TRAFFICABLE</b>	<b>NON-TRAFFICABLE</b>	<b>TRAFFICABLE</b>	<b>NON-TRAFFICABLE</b>
1.5 metres minimum 2.5 metres maximum	1.5 metres desirable 1.0 metre minimum	2.0 metres minimum 2.5 metres maximum	0.5 metres minimum

- .2 The offset is measured from the edgeline. If there is no edgeline, the offset is measured from the edge of seal.
- .3 Where a sealed shoulder in excess of 1.0 m is provided and an absolute minimum offset of 1.5 m cannot be provided from the edge of seal to the guide posts within the existing formed shoulder, then the guide posts must be placed at the edge of the seal. Guide posts must be positioned so that a consistent offset is maintained along a section of road. Guide posts must not be provided on kerbed roads.
- .4 Redundant existing guide posts must be removed and either disposed of, or recycled, by the Contractor.

### 3. **INSTALLATION OF DELINEATORS**

#### **General**

- .1 A delineator must be mounted on each guide post facing oncoming traffic in accordance with AS 1742.2.
- .2 Discrete device type retroreflectors must be installed in any of the following instances:
  - (a) areas subject to regular occurrences of fog; and
  - (b) to define restrictions of the carriage way at bridges, culverts or floodways.
- .3 Sheeting type retroreflectors must be installed at all other locations.

#### **Fixing to Road Safety Barrier Systems**

- .4 Delineators must be located in accordance with Table 3.4 "Delineators on Road Safety Barrier Systems". The delineators must be mounted on the barrier and must not protrude past the line of the barrier into the trafficked lane.
- .5 Delineators on Road Safety Barrier Systems must have an area of 50 cm<sup>2</sup> and minimum width 50 mm.

<b>Table 3.4 DELINEATORS ON ROAD SAFETY BARRIER SYSTEMS</b>	
<b>Location of Road Safety Barrier Systems</b>	<b>Placement of Delineators</b>
Greater than 4.0 m from the edge of the nearest running lane.	Delineators must not be installed on the Road Safety Barrier. Delineators must be placed on any guide posts located inside the fence line at the edge of the shoulder and at normal guide post spacings as per AS 1742.2.
Between 4.0 m from the edge of the nearest running lane and the normal line of guideposts.	Delineators must be placed at the first fence post and then as near as practicable with the spacing specified for guide posts in AS 1742.2. Sections of guard fence less than 30 m long must have one delineator at each end of the fence.
Within the normal line of guide posts.	Delineators must be placed at the first fence post and then at a desirable spacing of 8.0 m, but not greater than 10.0 m.
Road Safety Barrier installed alongside kerbed urban roads, but excluding sections of road with kerbing associated with bridge or culvert structures on roads which are predominantly unkerbed.	Delineators must not be placed on Road Safety Barrier.
Wire Rope Road Safety Barrier system placed within a narrow median (less than 2.8 m wide)	Delineators must be spaced at 10.0 m +/- 2.0 m

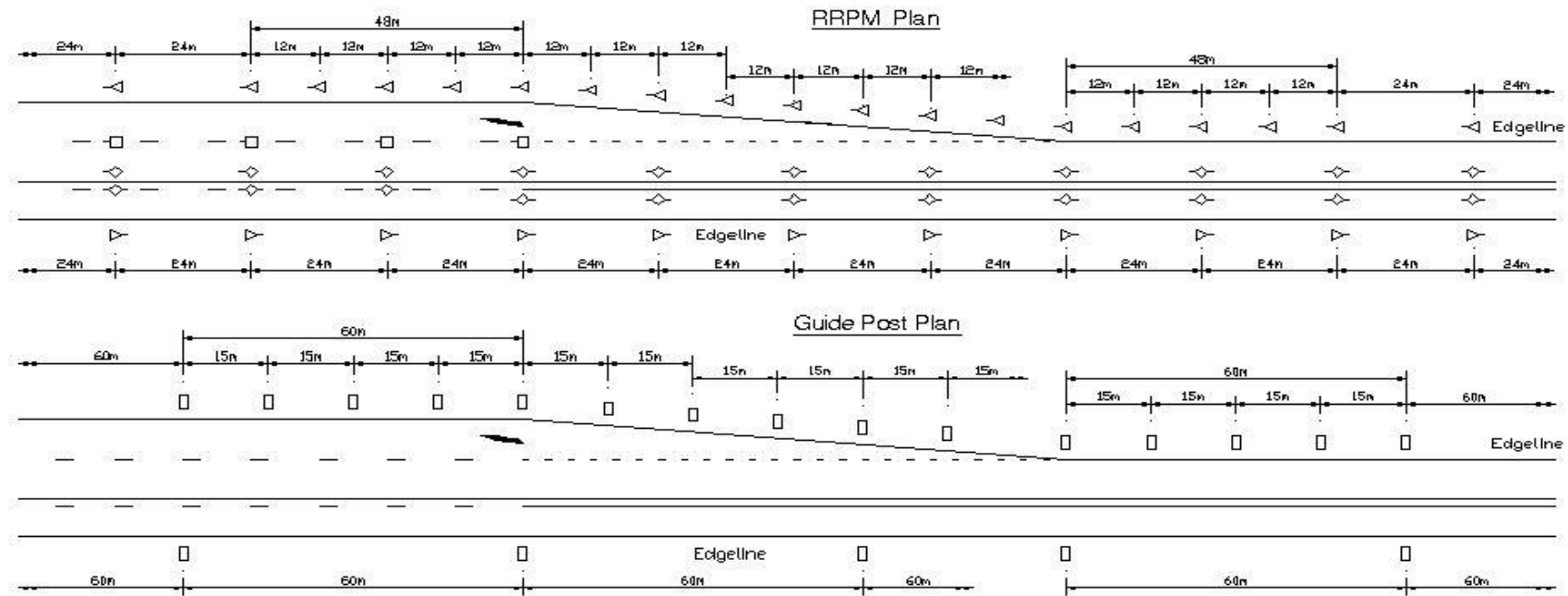
#### **Guide Posts at Bridges and Culverts**

- .6 At all culverts, a culvert marker must be installed on the first post on the left side approach only. The marker must:
  - (a) have minimum dimensions of 80 mm x 50 mm when measured on a flat on a flat surface;
  - (b) be black in colour; and
  - (c) be located horizontally 50 mm below the delineator.
- .7 Where a guide post marking a culvert reduces the guide posts spacing to less than half that would normally be expected. the posts must be relocated to ensure a minimum spacing of half the normal spacing is achieved.

#### **Guide Posts at Overtaking Lane Merge Tapers**

- .8 Where overtaking lanes have been installed, the guide post spacing is reduced to define the merge taper at the each end of the overtaking lane, as shown on Attachment R81A "Overtaking Lane – Merge Area Delineation Treatment" (Drawing TES 12408).

**ATTACHMENT R81A**



**NOTES:**

1. Guideposts are to be installed at the same offset from the edgeline through the entire length of the overtaking lane, including the merge taper area, regardless of the extent of any pavement or sealed shoulder.
2. Edge of seal not shown on drawing.
3. For design information refer to Operational Instruction 2.15 - Overtaking Lanes & GD900 Overtaking Lanes.
4. For pavement marking specifications, refer to DTEI Pavement Marking Manual.
5. Drawing is diagrammatic only and is not to scale. Do not scale from this drawing.

**LEGEND:**

- Retroreflective raised pavement marker: White - Unidirectional.
- △ Retroreflective raised pavement marker: Red - Unidirectional.
- ◇ Retroreflective raised pavement marker: Yellow - Unidirectional.
- ◇ Retroreflective raised pavement marker: Yellow - Bidirectional.
- Guide post.

Scale: Not to Scale  
 ALL DIMENSIONS ARE IN METRES  
 Sign Type: Overtaking Lane - Merge Area Delineation Treatment  
 Location: Various

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