

Technical Direction

Traffic Engineering

TTD 2020/05 | Version No. 01 – 09 October 2020

Signage Selection for Driver Reviver Facilities

Summary:	Audience:
This Technical Direction specifies the options and requirements for sign posting driver reviver facilities in NSW.	All parties involved in the design, production, delivery and maintenance of driver reviver signs in NSW.

Background

This Technical Direction provides the guidance scheme requirements for signposting driver reviver facilities across the NSW State Road Network. Signposting needs to provide the customer with information that is concise and accurate, noting that driver reviver sites operate at varying times across the network.

The driver reviver scheme aims to encourage drivers to take regular breaks from driving. This document therefore consolidates the signage arrangements and provides for uniformity in signposting of driver reviver facilities.

Purpose

This Technical Direction provides the Transport for NSW (Transport) design requirements and approved design options for the signposting of driver reviver sites on State Roads.

The site selection process for driver reviver sites is outside the scope of this Technical Direction.

This Technical Direction partially supersedes Technical Direction TD 2003 RS01 *Signposting of Rest Areas, Driver Reviver Sites and other Rest Stops* for content relating to driver reviver sites.

Where inconsistencies occur between this Technical Direction and TD 2003/RS01, this Technical Direction prevails. Terms and definitions relevant to this Technical Direction are provided in Table 3.

Approvals:

Owner:	Director Traffic Engineering Services	Review Date:	09 October 2022
Authorised by:	Director of Engineering	Effective Date:	09 October 2020

This Technical Direction must be read in conjunction with:

- Transport Specification, [TSI-SP-067, Changeable Message Signs – Electronic](#);
- Transport Specification, [TSI-SP-034, Changeable Message Sign – Prismatic](#); and
- AS 1742.6, *Manual of uniform traffic control devices, Part 6: Tourist and services signs*

Where existing signs for driver reviver sites or rest areas are similar to those detailed in this Technical Direction, then those signs should remain in place. If existing signs are unserviceable, they must be replaced with signs designed in accordance with this Technical Direction. If existing signs contain detail that is contradictory or not aligned with this Technical Direction the detail must be covered, or the signs must be replaced as soon as funds are available.

Summary of changes

- Introduction of changeable message signs for driver reviver sites.
- Removal of option to install hinged signs for driver reviver sites on the NSW State Road Network.

Traffic engineering requirements

Signage treatment selection

The selection of a signage treatment must be undertaken in accordance with the methodology for engaging the appropriate stakeholders as detailed in Figure 1. Additionally, the Enhanced driver reviver signage request form should be used to capture critical information as part of this signage treatment selection process.

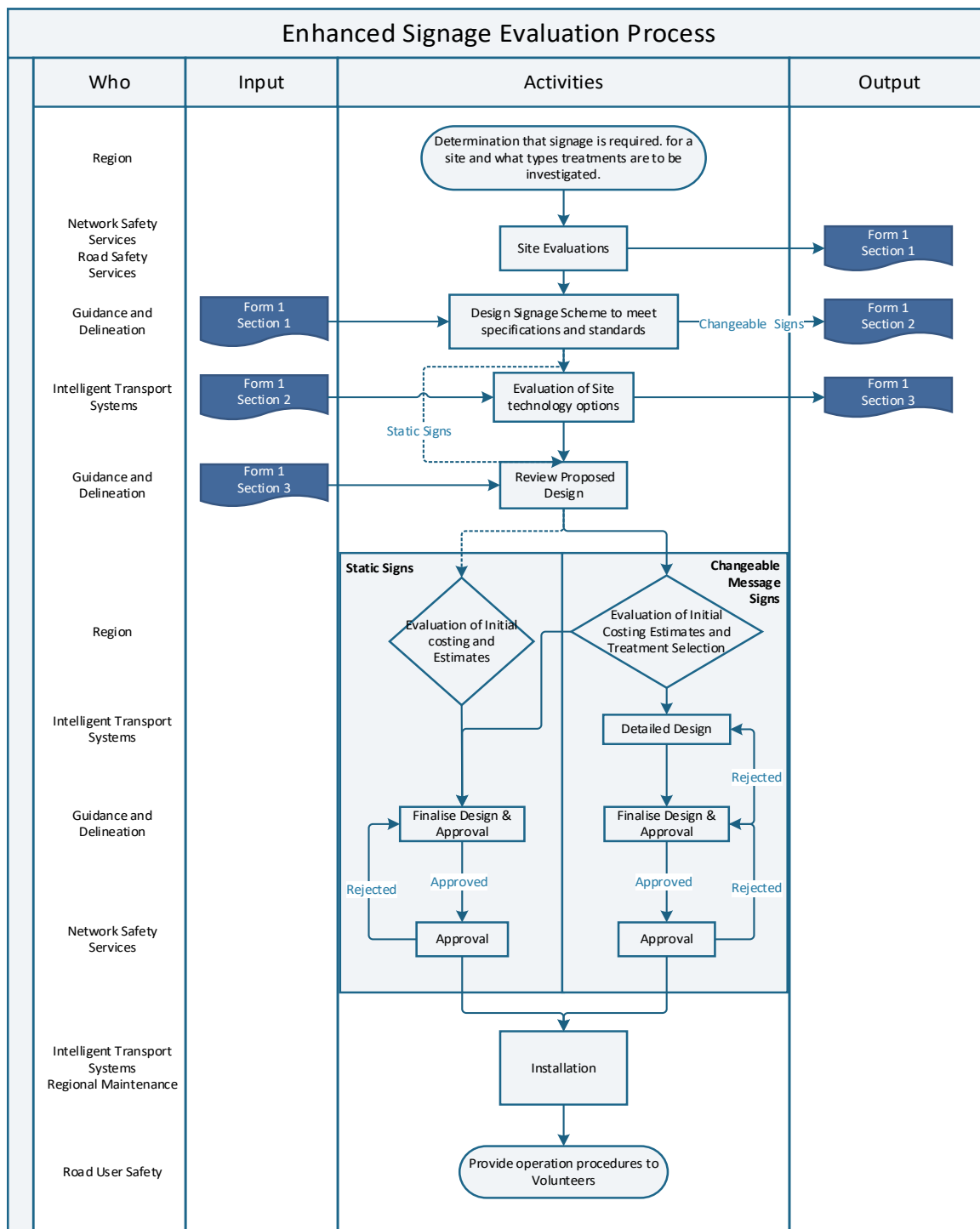


Figure 1 Process for evaluation of treatment types and design to be used on driver reviver signage

Sign position

Consistent placement of signage as part of the driver reviver scheme is important for guiding the driver to facilities.

Signs must be placed on the left side of the road on approach to a driver reviver facility. Signs may also be placed on the right side of the road on approach to a driver reviver facility where right turning guidance, signage and delineation meeting current road design requirements is provided.

When designing the guidance scheme for a driver reviver facility, signs should be placed at the following three sites:

- **Sign Position 1:** Advance Sign 1—this sign must be located 2 km prior to the intersection or exit from the main carriageway, with a tolerance of up to 500 m to meet local site environmental constraints.
- **Sign Position 2:** Advance Sign 2—this sign must be located 500 m prior to the intersection or exit from the main carriageway, with a tolerance of up to 100 m to meet local site environmental constraints.
- **Sign Position 3:** Exit Sign or intersection Sign—this sign must be located at the decision point for motorists to use the intersection or exit from the main carriageway. To direct motorists into the driver reviver facility, additional signs may be placed to reinforce sign messaging.

Example sign positions are provided in the Layouts Section of this Technical Direction.

Treatment types

When selecting the appropriate guidance scheme treatment type for driver reviver facilities, road user safety and amenity must be prioritised. The scheme must be designed in order to inform the road user and avoid miscommunication. Each treatment must consider the following factors when selecting the most appropriate treatment for the site:

- Driver messaging;
- Site constraints (power, telecommunications access, shade); and
- Installation and maintenance costs.

The signage scheme should also be designed such that it incorporates and plans for other co-located facilities such as rest areas.

Electronic and Mechanical Signs (Changeable)

The use of electronic and mechanical changeable message signs provides a better level of service to customers by communicating the operating status of a driver reviver site. Trials have demonstrated that the use of changeable signs improves visitation rates at driver reviver sites. The ability to clearly communicate when a driver reviver is open can only be achieved with use of these signs.









When using changeable message signs, consideration should be given to the increased complexity of signage projects and how the signage will be operated, maintained, its frequency of use and the safety implications of a design.

Electronic signs must conform to ITS specification TSI-SP-067. Mechanical signs must conform to ITS specification TSI-SP-034. ITS branch approval must be granted before installation of either an electronic sign or mechanical sign.

Signs must be remotely controlled and the changeable signs control system must conform to the relevant ITS specification. See the list full list of [ITS Specifications](#).

Examples of electronic and mechanical signs with changeable messages are provided in Table 1, the table provides an example sign face for each sign position, with the changed message other sign face and technology combinations are possible.





Table 1. Examples of electronic and mechanical changeable message signs

Sign	Message 1 – during operation	Message 2 – when closed
<p>Advance Sign 1</p> <ul style="list-style-type: none"> • Sign Position 1 • Mechanical Slide Sign • Panel able to show 2 messages. 		
<p>Advance Sign 1</p> <ul style="list-style-type: none"> • Sign Position 1 • Mechanical Prismatic Sign • Prisms able to show two messages. 		
<p>Advance Sign 2</p> <ul style="list-style-type: none"> • Driver Reviver Only Site • Electronic Sign • LEDs capable of displaying two messages. • Message - Open or Closed as it is a Driver Reviver Site only. 		
<p>Advance Sign 2</p> <ul style="list-style-type: none"> • Sign Position 2 • Electronic Sign • LEDs capable of displaying two messages. 		

Static

Static signs are the most basic type that can be adopted, as they do not provide road users with a clear message on the operating status of a driver reviver site. Static signs may be used where changeable signs are not feasible or site constraints limit their use. The use of changeable signs should be assessed by practitioners and should consider the site, constraints and visitation numbers. Table 2 provides example static signs.

Table 2. Static sign examples

Sign	Message – displayed at all times
Advance Sign 1	
Advanced Sign 2	
Advanced Sign 3	
Advanced Sign 3	

Sign face designs and additional requirements

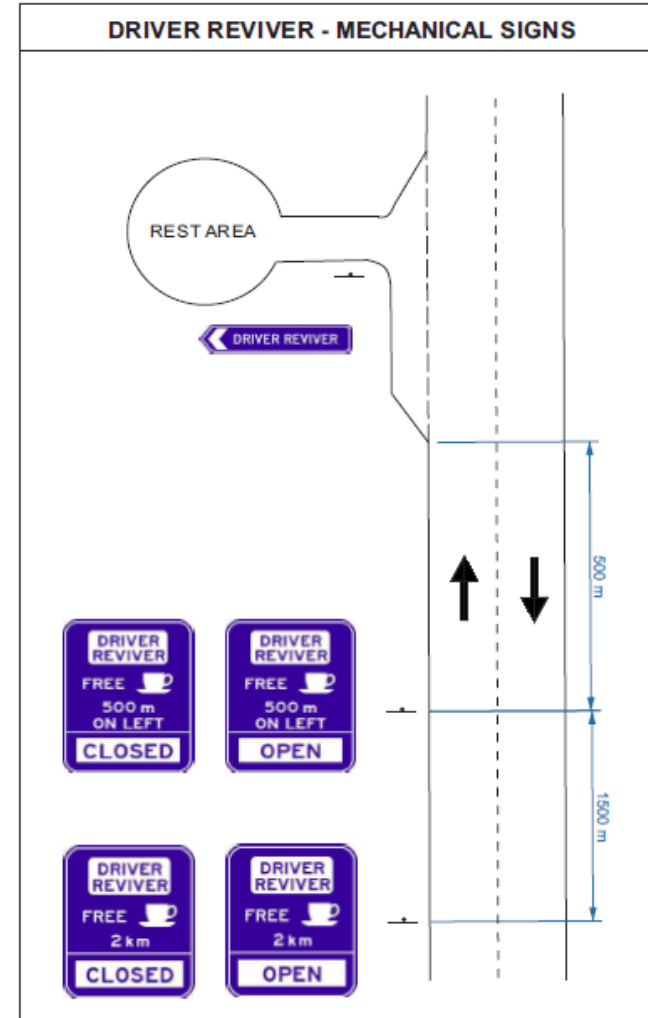
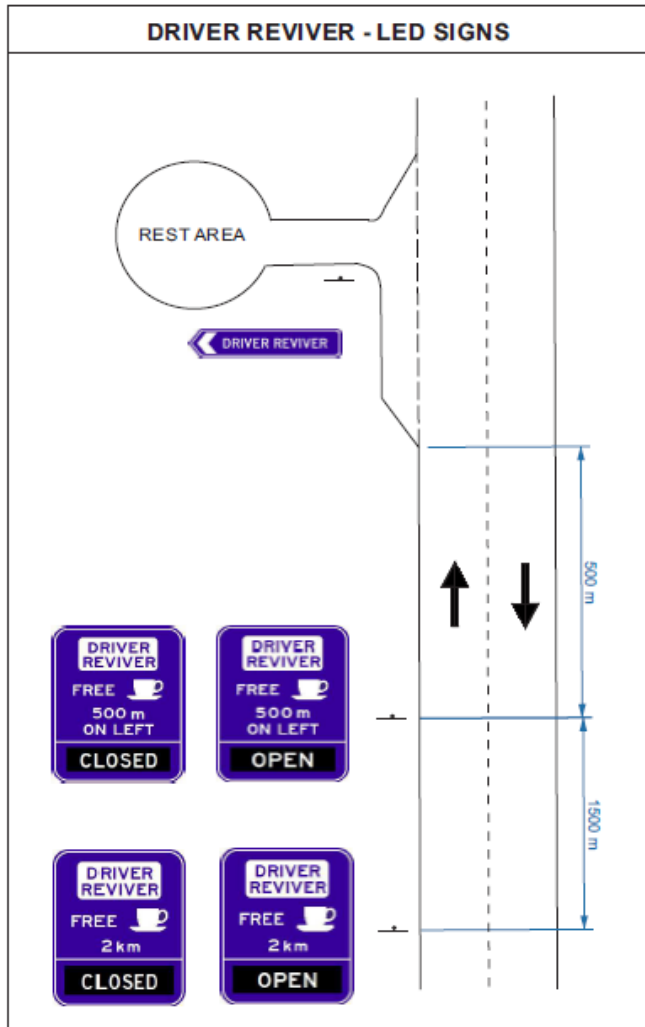
All driver reviver and combination driver reviver rest stop signs must have white retro-reflective lettering on a blue retro-reflective background. Where the driver reviver site is named on driver reviver signs, the name plus the legend “Driver Reviver” must be shown with a blue retro-reflective legend on a retro-reflective white patch, as shown in Table 1 and Table 2. Where modular structures are required in association with a driver reviver sign, the sign should be modified to keep the dimensions suitable for pipe supports. Two word names should be placed on two lines to achieve this.

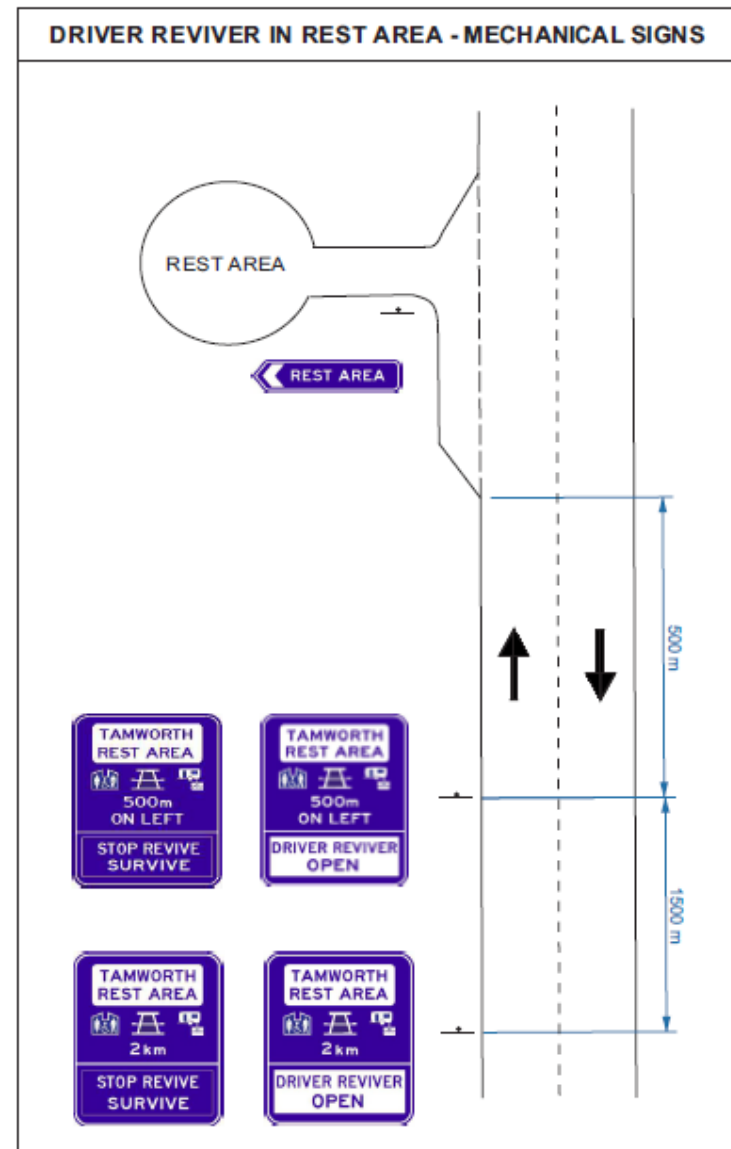
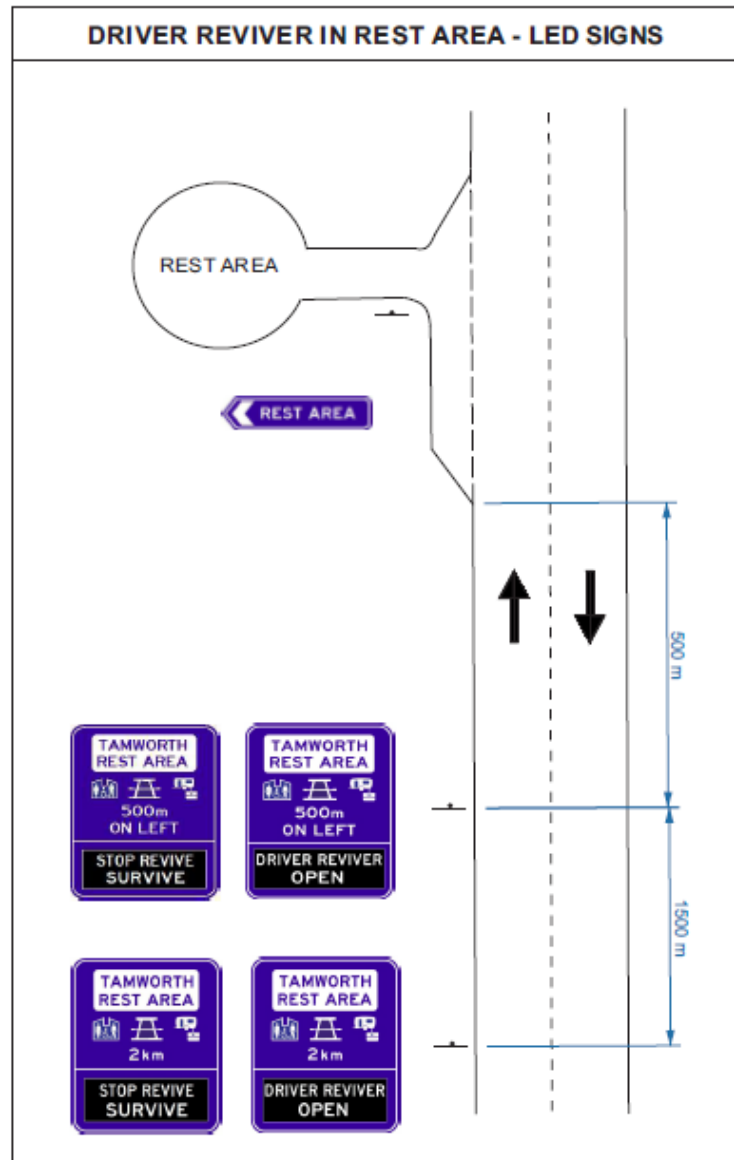
Hinged signs located on or adjacent to the carriageway, must not be used.

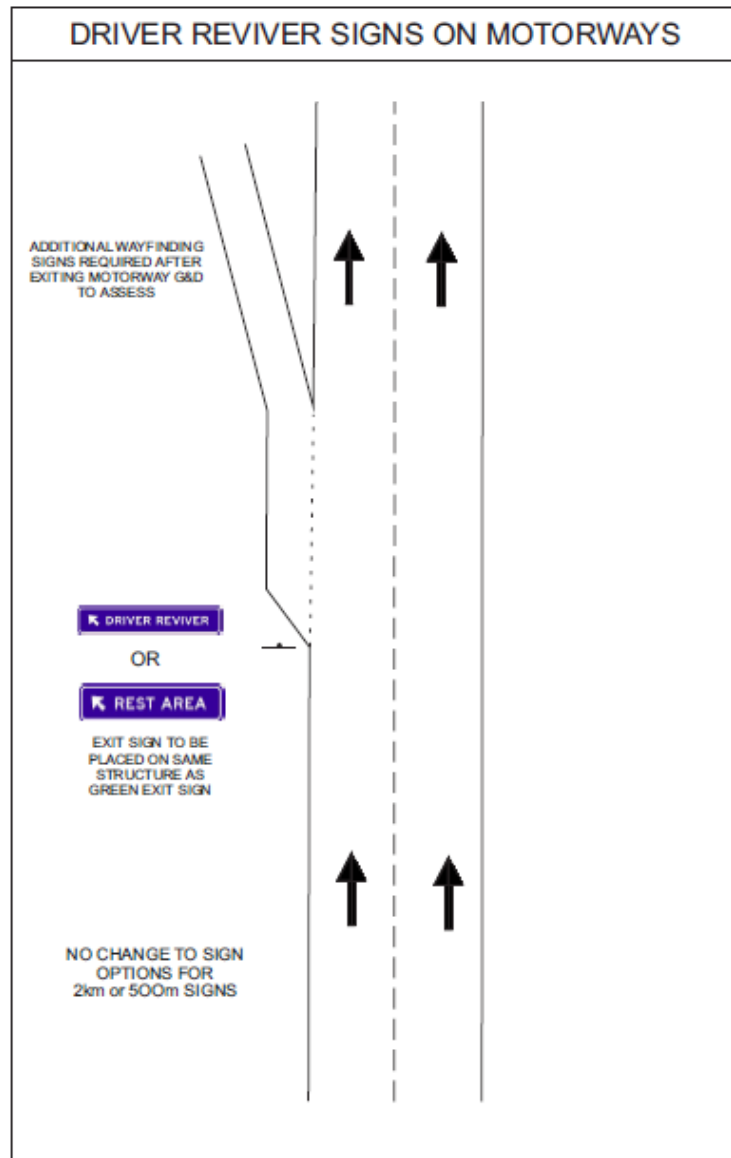
Traffic Engineering Services Guidance and Delineation provide designs, guidance schemes and sign faces in accordance with this Technical Direction. Driver Reviver Signs are G7 motorist service signs, which are similar to guide signs in that there is not a unique number for each sign. Sign numbering of driver reviver signs must comply with the AS 1742.6.

Proposed signs that are not in accordance with this Technical Direction must be forwarded to the Director or Traffic Engineering services for approval before use.

Layouts







Definitions

Table 3. Definitions

Term	Definition
decision point	point where a driver is required to take an action to reach their destination
driver reviver facility	facility that offers free cups of tea and coffee for drivers
driver reviver sign	G series sign that guides the driver to a driver reviver facility
electronic sign	sign that displays its message electronically
guidance scheme	series of signs that provide direction to a driver so they can reach their destination
hardwired control	signs that are powered by an externally provided power source
mechanical sign	sign that contains moving parts
modular structure	specially designed hollow steel structure
rest area	facility that is provided for drivers to take a break from driving
rest area sign	G series sign that directs or informs a driver to a rest area
sign control	unit which controls what message is displayed on a sign
solar powered device	device which is powered by the sun using solar panels
static sign	sign that displays only one message

Enhanced driver reviver signage request form

Section 1

Section 1 of the enhanced driver reviver signage request form is to be completed by Network Safety Services of the Region requesting the enhanced driver reviver signs.

Requested by			
Region Contact:		Date:	

Information about Guidance Scheme		
Road		
Locality		
Locations	Direction 1	Direction 2
Sign Location 1		
Sign Location 2		
Sign Location 3		
Speed Zone		
Additional Notes		

Section 2

Section 2 of the enhanced driver reviver signage request form is to be completed by Guidance and Delineation to inform the ITS designs and quotes.

Requested by			
Guidance & Delineation Contact :		Date:	

Sign face Requirements		
Sign Position	Electronic	Mechanical
Sign Location 1		
Sign Location 2		
Sign Location 3		
Additional Notes		

Section 3

Section 3 of the enhanced driver reviver signage request form is to be completed by by ITS to inform the region of the costing for various signage options.

Requested by			
ITS Contact :		Date:	

Costings for each treatment		
Sign	Electronic	Mechanical
Sign Location 1		
Sign Location 2		
Sign Location 3		
Additional Notes:		

Contact Us:

If you have any questions or would like more information on this document please contact Transport for NSW:



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