

Operational Instruction

2.30

# Warning Devices for Emergency Stations



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# TRAFFIC MANAGEMENT Operational Instructions

## Warning Devices for Emergency Stations - 2.30

### AMENDMENT RECORD

<i>Version</i>	<i>Page(s)</i>	<i>Date</i>	<i>Amendment Description</i>	<i>Init</i>
1	All	15/03/01	Original	BZ
2	All	01/07/10	Format / standards update	AI.B
3	All	18/02/14	Sign amended to separate lights	AI.B
4	7	20/03/17	Minor amendment to Section 4.6	CT
5	1, 2	13/07/20	Additional signs added for other emergency services	CT
6	All	12/20	Format updates	EW

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Manager, Traffic Services  
21 / 1 / 2021

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## 1. Scope

This document provides a uniform approach to the use of the Advance Fire Station warning signs (W5-36) and warning signs with built in alternating flashing yellow lights (TES 13697) at locations throughout the State.

This Operational Instruction will address the use of both the warning sign and warning devices.

This Operational Instruction does not address the use of Emergency Vehicle Traffic signals, which stop traffic at signals.

## 2. Standard Warning Signs

### 2.1 Application for Warning Sign

All applications for signs on roads maintained by DIT should be directed to the Manager, Traffic Services. All costs associated with the sign manufacture, installation, relocation or removal of these standard signs shall be met by DIT.

### 2.2 Types Signs



### 2.3 Guidelines to the Use of Warning Signs

These signs are only to be used in advance of the entrance to a fire station, Metropolitan Fire Services (MFS) or Country Fire Services (CFS), Ambulance station where it may not be readily apparent that a station exists, to warn traffic in time to avoid an emergency vehicle that may exit suddenly from the station. Where two or more emergency services are co-located then a W5-SA70 should be used.

Under no circumstances should the signs be used for intersections that are used by general road users. In such cases, intersection warning signs should be considered where the stopping sight distance cannot be achieved (refer to AS1742.2-2009 Table 2.3).

## 2.4 Sizes of Standard Warning Signs

The W5-36 sign can be specified in two (2) sizes as detailed in Table 1:

85th percentile speed (km/h)	Size (mm)
< 90	750 ('B')
≥ 90	900 ('C')

**Table 1: Size of Warning Signs**

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## 2.5 Installation of Signs

The signs can be used at any location as described in Section 2.3. The W5-36 sign shall be installed prior to the entry points used by the emergency vehicles at the appropriate distance shown in Table 2:

85th percentile speed (km/h)	Distance (m)
< 75	80 – 120
75 - 90	120 – 180
≥ 90	180 - 250

**Table 2: Location of Warning Signs**

For sign mounting and installation details refer to DIT Master Specification *RD-LM-C4 Sign Installation*. Where the sign is located on a multi lane divided road, it may be duplicated on the median if considered necessary.

# 3. Alternating Flashing Yellow Light (AFYL) Warning Sign

## 3.1 Application for AFYL Warning Sign

All applications for AFYL warning signs on roads maintained by DIT should be directed to the Manager, Traffic Services. All costs associated with manufacturing, installation, relocation and removal of the AFYL warning signs shall be the responsibility of the fire authority. The maintenance of these AFYL warning signs will be undertaken by DIT and all associated costs are to be met by the fire authority.

The fire authority should be advised of the operating procedures as detailed in this instruction, refer to Section 3.6.

## 3.2 Description of AFYL Warning Sign

TES 13697 is the only sign available for use at locations which meet the criteria detailed in Section 3.3. Sign details can be found in Appendix A.



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**TES 13697 with Flashing Light Supplementary Plate TES 18580**

### 3.3 Guidelines to the Use of AFYL Warning Sign

AFYL warning signs shall only be used where there is historical evidence (e.g. crash data) that the standard warning signs have not been successful (due to safe stopping distance, sight distance, topography of the area, other roadside distractions etc).

AFYL warning signs should not be provided where the emergency vehicle is clearly visible from the distances shown in Table 2.

Under no circumstances should the AFYL warning sign be used for intersections that are used by general road users. In such cases intersection warning signs should be considered where the stopping sight distances cannot be achieved (refer to AS1742.2-2009 Table 2.3).

### 3.4 Sizes of AFYL Warning Signs

TES 13697 sign details can be found in Appendix A. A smaller 'S' size is available for locations with site restrictions, refer to Appendix B.

Flashing light supplementary plate details can be found in Appendix C.

### 3.5 Installation of AFYL Warning Signs

The AFYL warning sign may be used on the approach to a fire station as described in Section 3.3. Where used, the TES 13697 sign shall be installed prior to the entry point used by the fire vehicles at a distance shown in Table 2. The AFYL warning sign should only be installed on the necessary approach. It need not be installed on both approaches.

For other installation details, DIT's Technical Services will need to be contacted to determine the correct post, selection of cabling, ducting etc.

### 3.6 Operation of AFYL Warning Sign

An operating procedure for the AFYL warning sign shall be developed in conjunction with DIT, and the fire station shall be responsible to ensure that any persons who operate the signs have been given safe work instructions in regards to operating the sign and working near the road. Note that the AFYL shall not be operated in non-emergency situations.

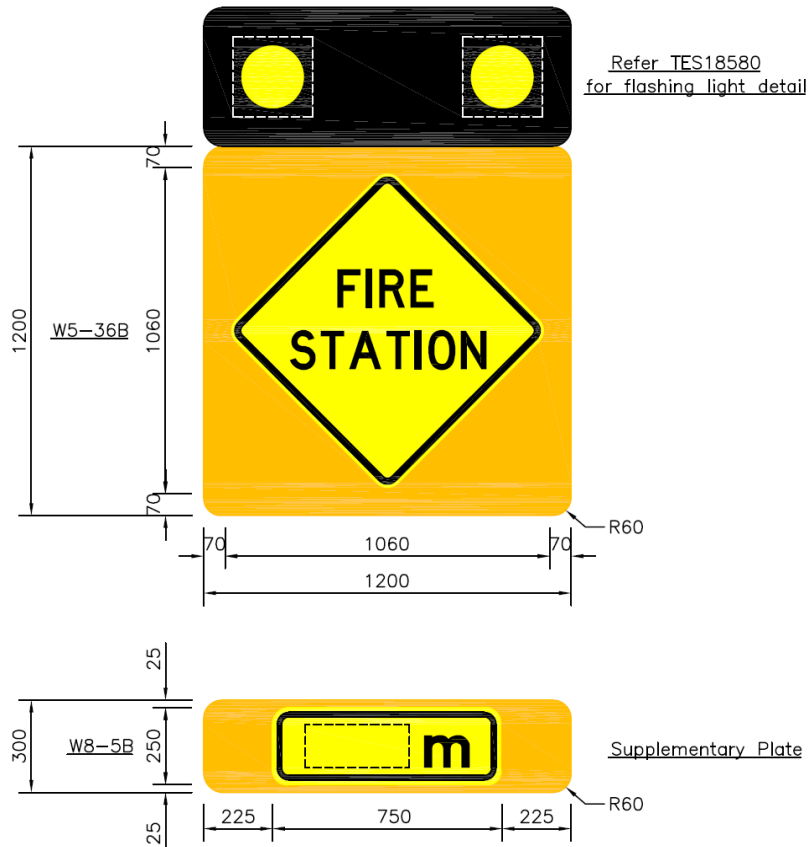
**2.30**

DIT shall be responsible for ongoing maintenance of the devices on roads under its care.

# Appendix A TES 13697

**Transport Services Division**  
**Traffic & Access Standards Section**  
**Specific Road Signs - Specifications, South Australia**

**2.30**



- Black
- Yellow class 1
- Yellow class 2

Scale: 1:20  
 ALL DIMENSIONS ARE IN MILLIMETRES  
 Total Sign Area: 1.44 sqm  
 Sign Type: Warning  
 Location: Various

Drawn: A. Simister  
 Edition: A Rev: 5  
 Date: 25 September, 2013

Authorisation:  
 Date:

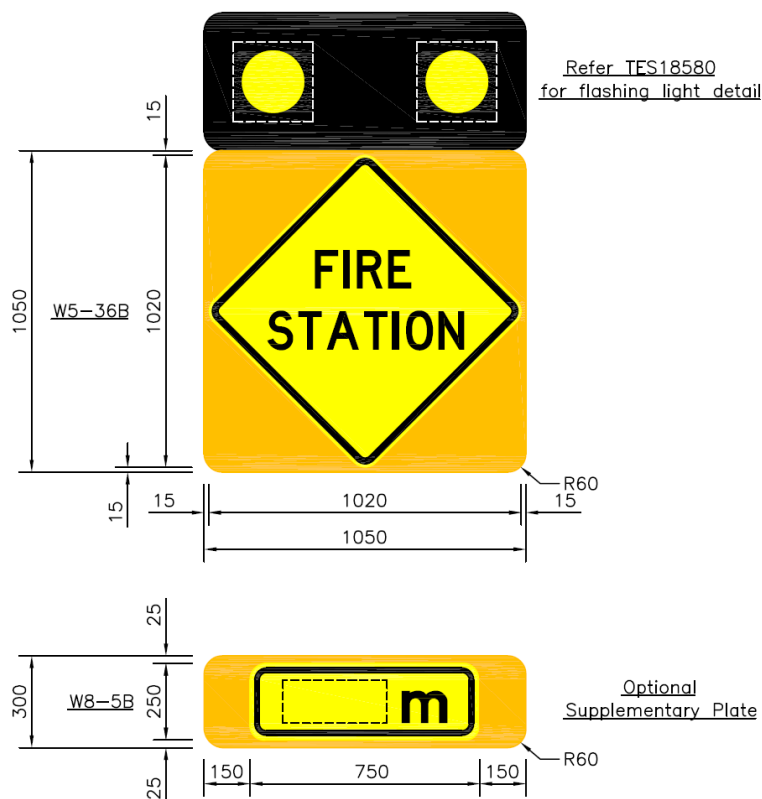
**TES 13697**



## Appendix B TES 13697s

**Transport Services Division**  
**Traffic & Access Standards Section**  
 Specific Road Signs - Specifications, South Australia

**2.30**



- Black
- Yellow class 1
- Yellow class 2

Scale: 1:20  
 ALL DIMENSIONS ARE IN MILLIMETRES  
 Total Sign Area: 1.10 sqm  
 Sign Type: Warning  
 Location: Various

Drawn: A. Simister  
 Edition: A Rev: 5  
 Date: 25 September, 2013

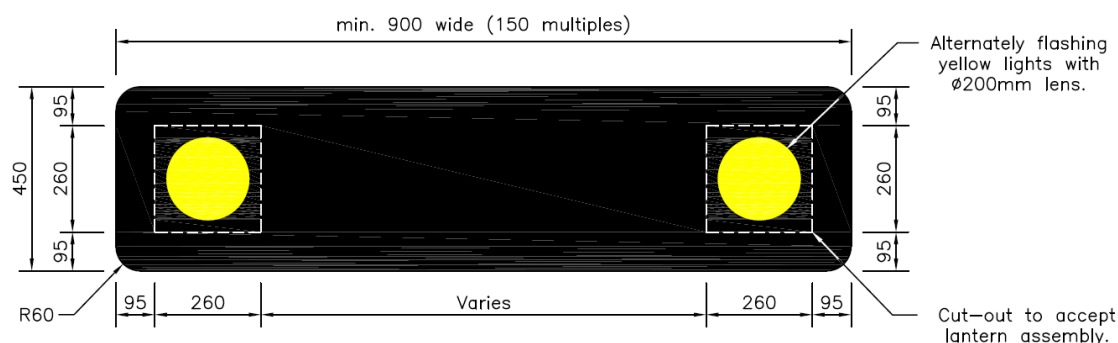
Authorisation:  
 Date:

**TES 13697s**

## Appendix C TES 18580

Transport Services Division  
Traffic & Access Standards Section  
Specific Road Signs - Specifications, South Australia

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TES 18580 may be mounted above back board signs or regulatory signs to provide additional warning (Refer AS 1742.2-2009).

NOTE:

TES 18580 only to be produced in widths  $\geq 900\text{mm}$  (multiples of 150mm).

■ Black

Scale: 1:15

ALL DIMENSIONS ARE IN MILLIMETRES

Total Sign Area: Varies

Sign Type: Warning (Flashing Lights)

Location: Various

Drawn: A. Simister  
Edition: A Rev: 2  
Date: 6 June, 2012

Authorisation:

Date:

**TES 18580**