TS 00012:1.0

SPG 1210

Specification

Signalling Signage

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Revision	Effective date	Summary of changes
1:0	21/11/2022	First issue as TS 00012. Supersedes SPG 1210, v1.6

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Preface

This specification supersedes SPG 1210 *Signalling Signs and Instruction Plates*, version 1.6. and is a first issue as TS 00012.

This document forms part of the TfNSW suite of railway signalling standards which detail the requirements for design, manufacture and installation of signalling signage applicable to Safeworking and advisory information to support network operations. Signage includes signs, boards, notices and plates.

This specification contains the requirements for the wording, size, colour and material for signage used with the railway Safeworking systems and at level crossings in NSW.

Railway signage is divided into three categories as follows:

- Signs with an unconditional mandatory message, for example, 'stop' or signs which denote a hazard, for example, 'catchpoint'. These signs are normally white lettering on a red background.
- Signs with an instruction to the driver which supplements the RailSafe Safeworking Rules and Procedures. Refer to the RailSafe web site. For example, 'Drivers must not pass this signal …..'. These signs are normally white lettering on a black background.
- Signs of a specialised nature, for example, advisory speed signs, pilot staff box labels. These signs and notice plates may be in a variety of colours depending on application.

The changes to previous content include the following:

- clarification to details of existing signage
- removal of obsolete signage
- inclusion of new signage
- provision of ETCS levels 1 and 2 signage
- conversion of the specification to AMB format and style
- transfer of some signage to TS 03506.

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1 Scope

This specification contains the physical specification of signalling signage including size, colour and material.

Refer to T HR SC 10006 ST for details of signs which are outside the scope of this specification.

Refer to SPG 0706 for installation minimum requirements of signalling signage.

2 Application

This specification applies to the manufacture and or installation of signalling signage, that is, signs, plates and boards in the metropolitan rail area.

3 Referenced documents

The following documents are cited in the text. For dated references, only the cited edition applies. For undated references, the latest edition of the referenced document applies.

Australian standards

AS 1742.7:2016 *Manual of uniform traffic control devices – Part 7: Railway crossings*

AS 1743:2018 *Road signs – Specifications*

AS 1744 *Standard alphabets for road signs*

AS 1906.1:2017 *Retroreflective materials and devices for road traffic control purposes – Part 1: Retroreflective sheeting*

Transport for NSW standards

SPG 0706 *Installation of Trackside Equipment*

T HR SC 10006 ST *Signalling Design Principle – Signalling Signs*

TS 00017 *Speed Signs*

TS 03506 *Trackside Signs*

Other reference documents

European Economic Interest Group, European Rail Traffic Management System, December 2010, EEIG : 06E068 *ETCS marker board definition*, version 2

Transport for NSW standard drawings

C08113 *ESR Signal Identification Plates*

M01-029 *Landmark Arrangement & Details. Triangle – Retroreflective*

M01-030 *Landmark Signal. Retroreflective Triangle*

M01-143 *Identification Plates – Details Retro-reflective Type*

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M05-003 *Notice Plate – Retro-reflective Begin / End Single Light Indication*

M05-006 *Special Advisory Speed Board Arrangement – Manufacturing Details*

M05-007 *Notice Board 'Derail' Manufacturing Details*

M05-011 *Notice Board 'Catch point' Manufacturing Details*

M05-017 *Notice Board 'Stop' / 'Electric Trains Stop' Board – Manufacturing Details*

M05-021 *Notice Board 'Block Joint' Manufacturing Details*

M05-039 *'Shunting Limit on Track Name' Notice Plate / Notice Board 'Shunting Limit' – Manufacturing Details*

M05-042 *Drivers Instruction Plate – Passing Signal at Stop*

M05-045 *Tonnage Instruction Boards – Manufacturing Details*

M05-052 *Begin and End Yard Limit Notice Plates*

M05-053 *Begin and End Yard Limit Notice Plates (vertical)*

M05-054 *Begin and End Yard Limit Vertical Notice Plates with Location Names*

M05-055 *Begin and End Yard Limit Horizontal Notice Plates with Location Names*

M05-057 *Notice Plate – Points Cleared 8 Cars*

M05-058 *Multi Signal Passed at Danger (SPAD) Signal Alert Signs*

M05-060 *Pantograph Down Sign – Manufacturing Details*

M05-062 *Notice Plate – 'Points Cleared 4V / 8V Cars' for V Set Cars*

M05-064 *Special Proceed Authority Notice Plate – Manufacturing Details*

M05-066 *Sign mounting hardware, assembly instructions and material list*

M05-070 *Train Order Working Location Board*

M05-076 *Slip Site Absolute Signal Notice Plates – Manufacturing Details*

M05-080 *Signal Ahead Sign – Manufacturing & Mounting Details*

M05-084 *Safety Overrun Area Sign*

M05-086 *Notice Plate – Berth Sign*

M05-088 *Location Nameplates – Stainless Steel Stencil Type*

M05-142 *Worksite Protection Signal Safety Switch Lock Out Box*

M05-514 *'Begin ATP' Signage Assembly Diagram (ETCS Level 1 transition sign)*

M05-515 *'End ATP' Signage Assembly Diagram (ETCS Level 1 transition sign)*

M05-577 *'Begin ATP' Signage Narrow Version Assembly Diagram (ETCS Level 1 transition sign)*

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M05-578 *'End ATP' Signage Narrow Version Assembly Diagram (ETCS Level 1 transition sign)*

M05-600 *ETCS Level 2 Transition Signs – Horizontal - Manufacturing Details*

M05-601 *ETCS Level 2 Transition Signs – Vertical - Manufacturing Details*

M05-602 *ETCS Level 2 Marker Boards – Manufacturing Details*

M05-603 *ETCS Marker Boards ID Plates - Manufacturing Details*

M06-212 *Level Crossing Signs – Mounting Details*

M06-213 *Level Crossing Signs –Train Drivers Approach*

M06-215 *Active Pedestrian Crossing Warning Sign W7-14-3 – Manufacturing Details*

M06-244 *Pedestrian Crossing – General Arrangement Details*

M06-247 *Pedestrian Crossing – Emergency Exit Signs – Manufacturing Details*

M06-250 *Level Crossing Predictor Sign*

M06-262 *Pedestrian Crossing – Cyclists Dismount Sign – Manufacturing Details*

M06-263 *Railway Crossing Sign R6-25B / R6-25-1 – Manufacturing Details*

M06-265 *Level Crossing – Fault or Damage Reporting Sign – Manufacturing Details*

4 Terms, definitions and abbreviations

The following terms, definitions and abbreviations apply in this document:

AMB Asset Management Branch

ASDO automatic selective door operation

ATP automatic train protection

CIE International Commission on Illumination

ECM Planroom Enterprise Content Management Planroom (previously known as the Virtual Planroom (VPR))

EEIG European Economic Interest Group

EDMS electronic data / document management system

ESR Eastern Suburbs Railway

ETCS European Train Control System

ETCS level 1 limited continuous supervision of train movement, information transmission is based on track mounted balises. ETCS level 1 uses the existing signalling equipment and signage

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ETCS level 2 continuous supervision of train movement with constant communication via GSM-R between the train and trackside through the radio block centre

LEU lineside electronic unit

metropolitan rail area the rail freight network and the heavy rail passenger network within the metropolitan rail area bounded by Newcastle Interchange (in the north), Richmond (in the northwest), Bowenfels (in the west), Macarthur (in the southwest) and Bomaderry (in the south), and all connection lines and sidings within these areas, but excluding private sidings

RIM Rail Infrastructure Manager (currently Sydney Trains)

SRA State Rail Authority

SWMS safe work method statement

TfNSW Transport for NSW

5 Common requirements

The operational signs defined in this specification are intended to reflect the majority of signage referenced on the RailSafe website.

Where a standard drawing number is referenced in this specification, the sign shall be manufactured in accordance with that drawing.

Where a standard drawing number is not referenced, the sign shall be manufactured in accordance with the details provided in this specification.

Where there is conflict between a standard drawing and a specification table in this specification, the standard drawing shall take precedence.

Figures are generally for illustrative purposes only. Some figures are legacy figures and may be a simplified representation of the required sign.

Square corners shall be rounded to 5 mm minimum radius unless specified otherwise on a referenced manufacturing drawing.

Signs shall be installed horizontally except where there is insufficient space in which case vertical installation is permitted.

Refer to T HR SC 10006 ST for further information on the provision of signalling signs.

Refer to SPG 0706 for further installation guidelines and for signalling plates and plaques.

Refer to TS 03506 for information on trackside signs including car markers.

Refer to TS 00017 for information on speed signs.

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5.1 Standard drawings

Drawing numbers referenced in this specification are TfNSW standard signalling mechanical drawing numbers. Each sheet has a unique EDMS number. For example, TfNSW standard drawing number M05-066 comprises two separate sheets which have the following EDMS numbers SG692311 and SG421296.

The signalling mechanical drawings numbering system (prefixed by the letter M) is a legacy system but is advantageous for ease of locating and identifying a group of sheets forming a standard drawing. These signalling mechanical drawings are located in the ECM Planroom.

5.2 Form of characters

Character size, style and occasionally spacing are specified in this document.

Except where shown otherwise, character size and spacing shall be in accordance with AS 1744. Notice plates and plaques do not need to comply with AS 1744 in terms of lettering.

Character size and style are quoted as, for example, 80DM or 100CN where:

- 80 and 100 are the letter heights in mm
- D and C (series) are letter and numeral forms and M (medium) and N (narrow) are letter and numeral spacing in accordance with in AS 1744.

The form and proportion shall be similar to that shown in AS 1744 where letters or numerals which are not included in AS 1744 are specified.

5.3 Materials

Signs shall be made from aluminium alloy sheet or extrusion as follows:

- 2 mm thick sheet
  - 5052 H36 or H38
  - 5086 H34
  - 5251 H36 or H38
- 1.6 mm thick sheet
  - 5052 H36 or H38
  - 5251 H36 or H38
- extrusions
  - 6063 T5 or T6
  - 6061 T6.

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Signage dimensions are quoted in millimetres (mm).

Signs shall be securely fixed to aluminium channels by broad head aluminium rivets with rivet heads coloured to match the sign colour.

5.3.1 Materials for characters and background

Where reflective lettering, numerals or backgrounds are specified, the reflective material as well as any process inks or pastes shall be in accordance with AS 1906.1:2017 with the class of material as specified for each sign. ETCS marker boards shall be in accordance with EEIG : 06E068.

Non-reflective finishes such as paints, films or other coating materials shall be compatible with the reflective materials, adhere securely to the aluminium plate or extrusion and have an equivalent or better service life than the reflective materials.

All signs shall have an anti-graffiti coating applied.

5.4 Dimensional tolerances

Dimensional tolerances shall be as follows:

- overall dimensions of sign or plate ± 3 mm
- vertical spacing between lines of letters or numerals ± 5 mm
- mounting hole centres ± 2 mm.

5.5 Reflectivity

The same class of retro-reflective material shall not be used for both letters and background where reflective letters on a reflective background are specified.

Class 400 and class 100 materials as specified in AS 1906.1:2017 shall be used as nominated in this specification or the referenced standard drawing, for example, class 400 letters on a class 100 background. ETCS marker boards shall be in accordance with EEIG : 06E068.

> Note: The retro-reflectivity classification system detailed in AS 1906.1:2017 differs from the previous issue. Class 1 in the previous issue has been replaced with class 400 and class 2 in the previous issue has been replaced with class 100. Class 400 is more reflective than Class 100.

5.6 Mounting

Signage shall be mounted in accordance with the details provided on the manufacturing detail drawing numbers specified in the applicable specification tables in Sections 6 to 7. Where mounting detail is not specified on the manufacturing detail drawing, the sign should be mounted in accordance with the mounting detail drawing number nominated in the applicable

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specification table. For example, the specification may require the sign to be manufactured against drawing number M05-069 but installed according to the mounting detail in drawing number M05-066.

Signs located above ground shall be fixed to circular posts wherever possible.

Where signs are to be fixed to flat face posts or brackets, wherever possible they shall be manufactured and mounted using Signfix aluminium channel or an equivalent product.

Mounting holes positions and sizes specified in this document are for direct mounting the plate to a signal post or rail post with U-bolts. If signs are to be mounted using Bandit clamps or equivalent product with proprietary brackets, hole centres should be varied to suit the bracket used.

Appendix A contains a list of signs and plates that are likely to be still in use but not detailed in this specification. Some drawings in Appendix A detail U-bolt and similar direct mounting methods. However, where signs are to be fixed to circular posts, wherever possible they shall be manufactured and mounted using Signfix aluminium channel or an equivalent product to suit M10 T-bolts together with anti-rotational clips, typically as shown on drawing M05-066.

Signage shall not be mounted on electrical stanchions unless approved by the overhead wiring authority for an interim period.

Where the signage mounting options nominated herein are not possible at a particular location, contact the RIM for advice.

Note: M05-066 is a generic trackside signage post mounting drawing, detailing the preferred mounting method.

6 Safeworking

6.1 Landmark and location signs

Figure 1 shows the symbolic landmark sign. Table 1 lists the specifications for symbolic landmark signs.

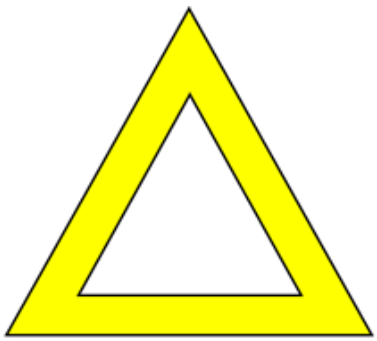

Figure 1 – Landmark sign

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Table 1 – Landmark sign specifications

Parameter	Details
Manufacturing detail drawing number	M01-030
Plate thickness	2 mm
Triangle background material	Retro-reflective yellow
Rear of sign	White
Mounting detail drawing number	M01-029

Figure 2 shows the symbolic location sign. Table 2 lists the specifications for symbolic location sign with location name signs.

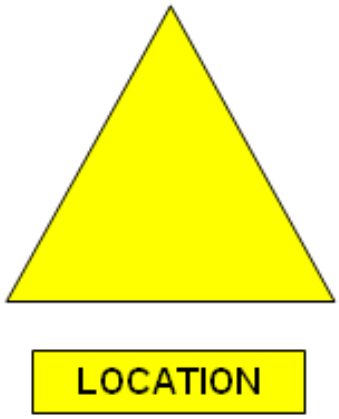

Figure 2 – Location sign

Table 2 – Location sign specifications

Parameter	Details
Manufacturing detail drawing number	M05-070
Plate thickness	2 mm
Triangle background material	Retro-reflective yellow
Location sign background material	Retro-reflective yellow
Location sign letter size, type and spacing	120 mm series CN or DN – medium and narrow width letters if required to fit. Black
Rear of sign	White
Mounting detail drawing number	M05-070

Note: Location sign line text will vary with location.

Note: Can be used to replace landmarks, without the name sign.

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6.2 Stop sign

Figure 3 shows the horizontal and vertical stop signs. Table 3 lists the specifications for stop signs.

Figure 3 – Stop signs

Table 3 – Stop signs specifications

Parameter	Details – horizontal sign	Details – vertical sign
Manufacturing detail drawing number	M05-017	M05-017
Sign width	600 mm	200 mm
Sign height	250 mm	800 mm
Plate thickness	2 mm	2 mm
Character size, type and spacing (where specified)	140 mm series DM	140 mm series D
Character material	Retro-reflective white	Retro-reflective white
Background material	Retro-reflective red	Retro-reflective red
Mounting detail drawing number	M05-017	M05-017

Note: Size may vary slightly when located in yards depending on infrastructure constraints.

Where localised instructions are required, these shall be positioned immediately below the red stop sign. The supplementary instruction sign shall be white lettering on a black background. Refer to M05-069 for manufacturing guidance.

6.3 Shunting limit signs

Figure 4 shows horizontal and vertical shunting limit signs. Table 4 lists the specifications for shunting limit signs.

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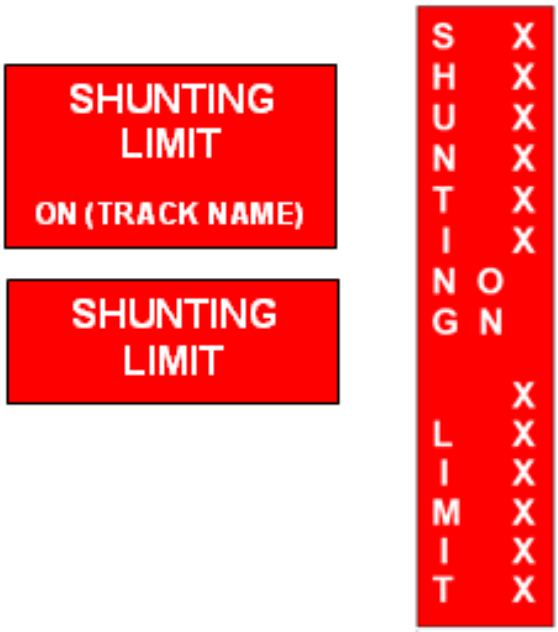

Figure 4 – Shunting limit signs

Table 4 – Shunting limit signs specifications

Parameter	Details – horizontal sign	Details – vertical sign
Manufacturing detail drawing number	M05-039	M05-039
Sign width	600 mm	200 mm
Sign height	As per drawing	800 mm
Plate thickness	2 mm	2 mm
Character size, type and spacing (where specified)	As per drawing	40 mm Series E
Character material	Retro-reflective white	Retro-reflective white
Background material	Retro-reflective red	Retro-reflective red
Mounting detail drawing number	M05-039	M05-039

Note: Track name text will vary with location.

6.4 End of signalled authority sign

Figure 5 shows the end of signalled authority sign. Table 5 lists the specifications for end of signalled authority signs.

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Figure 5 – End of signalled authority sign

Table 5 – End of signalled authority sign specifications

Parameter	Details
Manufacturing detail drawing number	No drawing identified
Sign width	600 mm
Sign height	400 mm
Plate thickness	2 mm
Character size, type and spacing (where specified)	30 mm series D
Character material	Retro-reflective white class 400
Background material	Top, retro-reflective red class 100. Bottom, black non-reflective
Mounting detail drawing number	M05-066

6.5 Instructions for passing signal signs

6.5.1 Absolute signal sign

Figure 6 shows the absolute signal sign. Table 6 lists the specifications for the absolute signal signs.

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Figure 6 – Absolute signal sign

Table 6 – Absolute signal sign specifications

Parameter	Details
Manufacturing detail drawing number	No drawing identified
Sign width	250 mm
Sign height	400 mm
Plate thickness	1.6 mm
Character size, type and spacing (where specified)	25 mm series D
Character material	Retro-reflective white class 400
Background material	Black non-reflective
Mounting detail drawing number	M05-066

6.5.2 Signal key switch sign

Figure 7 shows the signal key switch sign. Table 7 lists the specifications for the signal key switch signs.

Figure 7 – Signal key switch sign

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Table 7 – Signal key switch sign specifications

Parameter	Details
Manufacturing detail drawing number	M05-142
Sign width	395 mm
Sign height overall	Nominal 400 mm
Plate thickness	1.6 mm
Character size, type and spacing (where specified)	Refer to drawing
Character material	Retro-reflective white
Background material	Retro-reflective red
Mounting detail drawing number	M05-142

6.5.3 Starting and home signal sign

Figure 8 shows the special proceed authority sign. Table 8 lists the specifications for special proceed authority signs.

Figure 8 – Special proceed authority sign

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Table 8 – Special proceed authority sign specifications

Parameter	Details
Manufacturing detail drawing number	M05-064 sheet 2
Sign width	500 mm
Sign height	450 mm
Plate thickness	2 mm
Character size, type and spacing (where specified)	30 mm series D
Character material	Retro-reflective white
Background material	Black non-reflective
Mounting detail drawing number	M05-064

6.5.4 Distant signal and repeater sign

Figure 9 shows the distant signal and repeater signs. Table 9 lists the specifications for distant signal and repeater signs.

Figure 9 – Distant signal and repeater signs

Table 9 – Distant signal and repeater signs specifications

Parameter	Details – vertical sign	Details – horizontal sign
Manufacturing detail drawing number	No drawing identified	No drawing identified
Sign width	400 mm	600 mm
Sign height	650 mm	400 mm
Plate thickness	2 mm	2 mm
Character size, type and spacing (where specified)	40 mm series DN	40 mm series DN
Character material	Retro-reflective white class 400	Retro-reflective white class 400
Background material	Black non-reflective	Black non-reflective

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Parameter	Details – vertical sign	Details – horizontal sign
Mounting detail drawing number	M05-066	M05-066

6.5.5 Passing signal at stop sign

Figure 10 shows the passing signal at stop sign. Table 10 lists the specifications for passing signal at stop signs.

Figure 10 – Passing signal at stop sign

Table 10 – Passing signal at stop sign specifications

Parameter	Details
Manufacturing detail drawing number	M05-042 for guidance. See note
Sign width	460 mm
Sign height	600 mm
Plate thickness	2 mm
Character size, type and spacing (where specified)	30 mm series CN
Character material	Retro-reflective white1
Background material	Black non-reflective
Mounting detail drawing number	M05-066

Note: Text on drawing may be obsolete. Use drawing for materials detail.

6.5.6 Intermediate crossover and siding signal signs

Figure 11 shows intermediate crossover and siding signal signs. Table 11 lists the specifications for intermediate crossover and siding signal signs.

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Figure 11 – Intermediate crossover and siding signal signs

Table 11 – Intermediate crossover and siding signal signs specifications

Parameter	Details
Manufacturing detail drawing number	No drawing identified. See notes
Sign width	600 mm
Sign height	600 mm
Plate thickness	2 mm
Character size, type and spacing (where specified)	30 mm series CN
Character material	Retro-reflective white class 400
Background material	Black non-reflective
Mounting detail drawing number	M05-066

Note: Name of crossover and name of siding text will vary with location.

Note: Refer to M05-064 for materials guidance.

6.5.7 Slip site signs

Figure 12 shows the slip site sign (variant 1). Table 12 lists the specifications for slip site signs (variant 1).

Figure 12 – Slip site signs (variant 1)

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Table 12 – Slip site signs specifications (variant 1)

Parameter	Details – variant 1
Manufacturing detail drawing number	M05-076
Sign width	600 mm
Sign height	400 mm
Plate thickness	2 mm
Character size, type and spacing (where specified)	50 mm series DN 40 mm series DN
Character material	Retro-reflective white
Background material	Black non-reflective
Mounting detail drawing number	M05-076

Figure 13 shows a version of a slip site sign (variant 2). Table 13 lists the specifications for slip site signs (variant 2).

Figure 13 – Slip site sign (variant 2)

Table 13 – Slip site sign specification (variant 2)

Parameter	Details – variant 2
Manufacturing detail drawing number	M05-064 sheet 2
Sign width	500 mm
Sign height	450 mm
Plate thickness	2 mm
Character size, type and spacing (where specified)	Refer to drawing
Character material	Retro-reflective white
Background material	Black non-reflective
Mounting detail drawing number	M05-064

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6.6 Electric trains stop signs

Figure 14 shows the horizontal and vertical electric trains stop signs. Table 14 lists the specifications for electric trains stop signs.

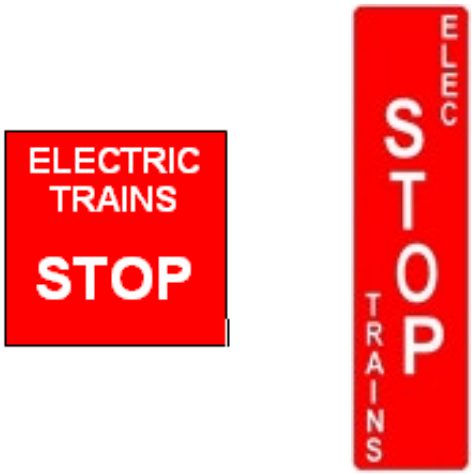

Figure 14 – Electric trains stop signs

Table 14 – Electric trains stop signs specifications

Parameter	Details – horizontal sign	Details – vertical sign
Manufacturing detail drawing number	M05-017	M05-017
Sign width	450 mm	200 mm
Sign height	350 mm	800 mm
Plate thickness	2 mm	2 mm
Character size, type and spacing (where specified)	60 mm series DM 100 mm series DM	Refer to drawing
Character material	Retro-reflective white	Retro-reflective white
Background material	Retro-reflective red	Retro-reflective red
Mounting detail drawing number	M05-066	M05-066

6.7 Tonnage instruction signs

Figure 15 shows two examples of the tonnage instruction signs. Table 15 lists the specifications for tonnage instruction signs.

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Figure 15 – Tonnage instruction signs

Table 15 – Tonnage instruction signs specifications

Parameter	Details – tonnage – full clear sign	Details – tonnage – medium sign
Manufacturing detail drawing number	M05-045	M05-045
Sign width	450 mm	450 mm
Sign height	400 mm	400 mm
Plate thickness	2 mm	2 mm
Character size, type and spacing (where specified)	30 mm series CN	30 mm series CN
Character material	Retro-reflective white	Retro-reflective white
Background material	Black non-reflective	Black non-reflective
Mounting detail drawing number	M05-066	M05-066

6.8 ETCS level 2 marker boards

The ETCS marker board is symbolic and comprises a yellow arrow on a blue background.

Figure 16 shows the horizontal and vertical ETCS marker boards. Table 16 lists the specifications for ETCS marker boards. Also refer to the notes.

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Figure 16 – ETCS marker boards

Table 16 – ETCS marker boards specifications

Application	Details – ETCS marker board – horizontal sign	Details – ETCS marker board – vertical sign
Manufacturing detail drawing number	M05-602	M05-602
Sign width	600 mm	200 mm
Sign height	600 mm	800 mm
Plate thickness	2 mm	2 mm
Arrow material. Refer Note 1.	Retro-reflective yellow	Retro-reflective yellow
Arrow border material. Refer Note 1.	Retro-reflective white	Retro-reflective white
Background material. Refer Note 1.	Retro-reflective blue	Retro-reflective blue
Mounting detail drawing number	See note 3	See note 4

Notes:

1) Refer to EEIG : 06E068 for chromaticity envelope definitions and reflectivity definitions. Also refer to CIE colour space chromaticity diagram.

2) ETCS marker boards are shown with example ETCS marker board ID plate mounted below. The ETCS marker board ID plate is a separate plate. See Section 9 for ID plates manufacturing details.

3) When mounting signs above ground on posts, refer to M05-514 and M05-515.

4) When mounting signs underground on tunnel wall, refer to M05-577 and M05-578.

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7 Advisory

7.1 Intermediate train stop speed sign

Figure 17 shows an example of intermediate train stop speed sign. Table 17 lists the specifications for intermediate train stop speed sign.

Figure 17 – Intermediate train stop speed sign

Table 17 – Intermediate train stop sign specifications

Parameter	Details
Manufacturing detail drawing number	M05-006
Sign diameter	300 mm or 200 mm as required
Plate thickness	1.6 mm
Character size, type and spacing (where specified)	150 mm or 100 mm series DN, as applicable to sign diameter
Character material	Retro-reflective white
Background material	Black non-reflective
Mounting holes centres and diameter	Specified by client
Mounting detail drawing number	M05-006

Intermediate train stop advisory speed sign number shall be as specified in the design.

7.2 Yard limit signs

Figure 18 shows the horizontal and vertical yard limit signs. Table 18 lists the specifications for yard limit signs.

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Figure 18 – Yard limit signs

Table 18 – Yard limit signs specifications

Parameter	Details – horizontal yard limit signs	Details – vertical yard limit signs
Manufacturing detail drawing number	M05-052 or M05-055	M05-053 or M05-054
Sign width	Refer to drawing	Refer to drawing
Sign height	Refer to drawing	Refer to drawing
Plate thickness	2 mm	2 mm
Character size, type and spacing (where specified)	Refer to drawing	Refer to drawing
Character material	Retro-reflective white	Retro-reflective white
Background material	Black non-reflective	Black non-reflective
Mounting detail drawing number	M01-143	M01-143

Note: M05-054 and M05-055 versions include location name.

7.3 Derail sign

Figure 19 shows the horizontal and vertical derail signs. Table 19 lists the specifications for derail signs.

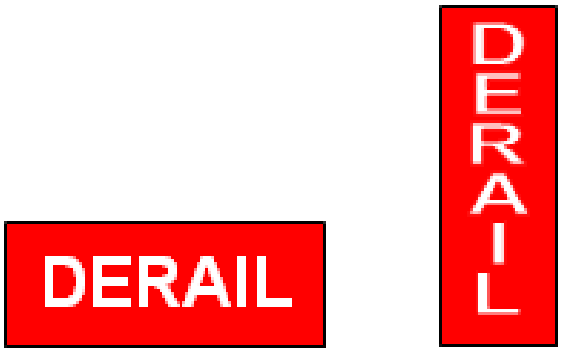

Figure 19 – Derail signs

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Table 19 – Derail signs specifications

Parameter	Details – horizontal sign	Details – vertical sign
Manufacturing detail drawing number	M05-007	M05-007
Sign width	600 mm	200 mm
Sign height	250 mm	800 mm
Plate thickness	2 mm	2 mm
Character size, type and spacing (where specified)	100 mm series DM	100 mm series E
Character material	Retro-reflective white	Retro-reflective white
Background material	Retro-reflective red	Retro-reflective red
Mounting detail drawing number	M05-066	M05-066

7.4 Single light indication signs

Figure 20 shows begin and end single light indication signs. Table 20 lists the specifications for begin and end single light indication signs.

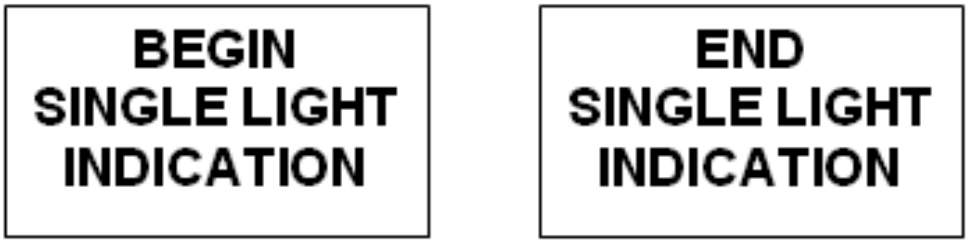

Figure 20 – Begin and end single light indication signs

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Table 20 – Begin and end single light indication signs specifications

Parameter	Details – begin sign	Details – end sign
Manufacturing detail drawing number	M05-003	M05-003
Sign width	900 mm	900 mm
Sign height	600 mm	600 mm
Plate thickness	2 mm	2 mm
Character size, type and spacing (where specified)	100 mm series C	100 mm series C
Character material	Black non-reflective	Black non-reflective
Background material	Retro-reflective white	Retro-reflective white
Mounting detail drawing number	M05-066	M05-066

7.5 ETCS level 1 ATP transition border signs

ATP utilises ETCS level 1.

ATP ETCS level 1 transition signs are required for operational traffic management.

The ‘begin ATP’ sign delineates the beginning of ATP ETCS level 1 territory.

The ‘end ATP’ sign delineates the end of ATP ETCS level 1 territory.

7.5.1 ATP ETCS level 1 transition signs - horizontal

Figure 21 shows the two horizontal ATP ETCS level 1 transition signs. Table 21 lists the specifications for horizontal ATP ETCS level 1 transition signs.

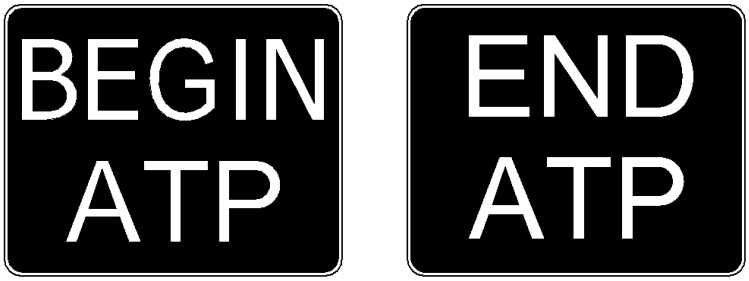

Figure 21 – Horizontal ATP ETCS level 1 transition signs

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Table 21 – Horizontal ATP ETCS level 1 transition signs specifications

Parameter	Details – begin ATP ETCS level 1 – horizontal sign	Details – end ATP ETCS level 1 – horizontal sign
Manufacturing detail drawing number	M05-514	M05-515
Sign width	500 mm	500 mm
Sign height	400 mm	400 mm
Plate thickness	2 mm	2 mm
Character size, type and spacing (where specified)	120 mm series CN	120 mm series CN
Character material	Retro-reflective white	Retro-reflective white
Background material	Black non-reflective	Black non-reflective
Mounting detail drawing numbers	M05-066 and M05-514	M05-066 and M05-515

7.5.2 ATP ETCS level 1 transition signs – vertical

Figure 22 shows the vertical variant ATP ETCS level 1 transition signs. Table 22 lists the specifications for vertical variant ATP ETCS level 1 transition signs.

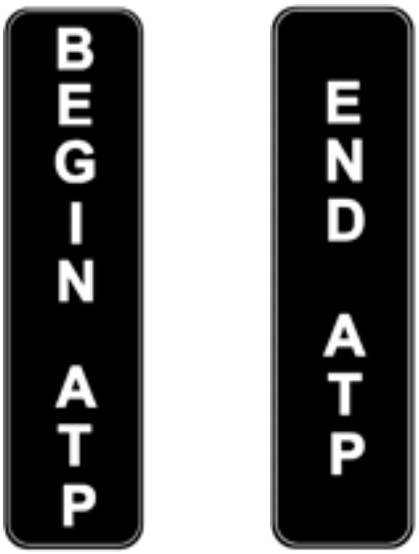

Figure 22 – Vertical variant ATP ETCS level 1 transition signs

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Table 22 – Vertical variant ATP ETCS level 1 transition signs specifications

Parameter	Details – begin ATP ETCS level 1 – vertical sign	Details – end ATP ETCS level 1 – vertical sign
Manufacturing detail drawing number	M05-577	M05-578
Sign width	200 mm	200 mm
Sign height	900 mm	900 mm
Plate thickness	2 mm	2 mm
Character size, type and spacing (where specified)	80 mm series E	80 mm series E
Character material	Retro-reflective white	Retro-reflective white
Background material	Black non-reflective	Black non-reflective
Mounting detail drawing number	M05-577	M05-578

7.6 ETCS level 2 transition border signs

ETCS level 2 is an in-cab signalling system.

ETCS transition signs are required for operational traffic management.

7.6.1 ETCS level 2 transition signs – horizontal

Figure 23 shows the horizontal ETCS level 2 transition signs. Table 23 lists the specifications for horizontal ETCS level 2 transition signs.

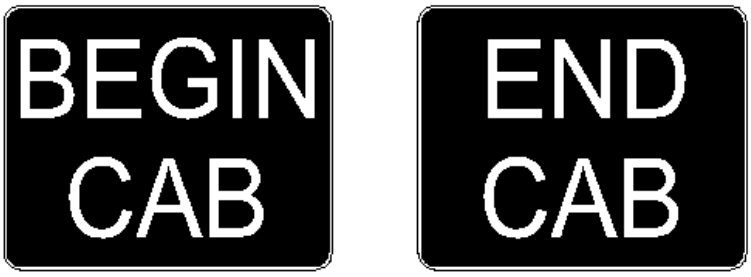

Figure 23 – Horizontal ETCS level 2 transition signs

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Table 23 – Horizontal ETCS level 2 transition signs specifications

Parameter	Details
Manufacturing detail drawing number	M05-600
Sign width	500 mm
Sign height	400 mm
Plate thickness	2 mm
Character size, type and spacing (where specified)	120 mm series CN
Character material	Retro-reflective white
Background material	Black non-reflective
Mounting detail drawing numbers	See note

Note: When mounting above ground, refer to M05-514 and M05-515.

7.6.2 ETCS level 2 transition signs – vertical

Figure 24 shows the vertical variant ETCS level 2 transition signs. Table 24 lists the specifications for vertical ETCS level 2 transition signs.

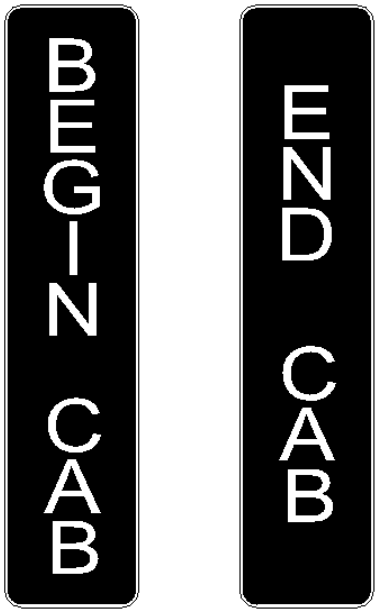

Figure 24 – Vertical variant ETCS level 2 transition signs

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Table 24 – Vertical variant ETCS level 2 transition signs specifications

Parameter	Details
Manufacturing detail drawing number	M05-601
Sign width	200 mm
Sign height	900 mm
Plate thickness	2 mm
Character size, type and spacing (where specified)	80 mm series C
Character material	Retro-reflective white
Background material	Black non-reflective
Mounting detail drawing number	See note

Note: When mounting underground on tunnel walls refer to M05-577 and M05-578.

7.7 Signal ahead and signal alert signs

Figure 25 shows two examples of signal alert signs (variant 1). Table 25 lists the specifications for signal alert signs (variant 1).

Figure 25 – Signal alert signs (variant 1)

Table 25 – Signal alert signs specifications (variant 1)

Parameter	Details
Manufacturing detail drawing number	M05-058
Sign width	600 mm
Sign height	1200 mm
Plate thickness	2 mm

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Parameter	Details
Character size, type and spacing (where specified)	100 mm
Character material	Retro-reflective deep blue (3875)
Background material	Retro-reflective silver
Mounting detail drawing number	M05-058

Figure 26 shows an example of a signal alert sign (variant 2). Table 26 lists the specifications for signal alert signs (variant 2).

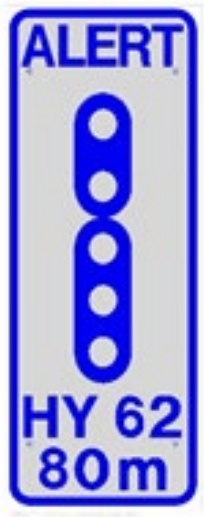

Figure 26 – Signal alert signs (variant 2)

Table 26 – Signal alert signs specifications (variant 2)

Parameter	Details
Manufacturing detail drawing number	M05-058
Sign width	450 mm
Sign height	1200 mm
Plate thickness	2 mm
Character size, type and spacing (where specified)	100 mm
Character material	Retro-reflective deep blue (3875)
Background material	Retro-reflective silver
Mounting detail drawing number	M05-058

Figure 27 shows horizontal and vertical variants of the signal ahead signs. Table 27 lists the specifications for signal ahead signs.

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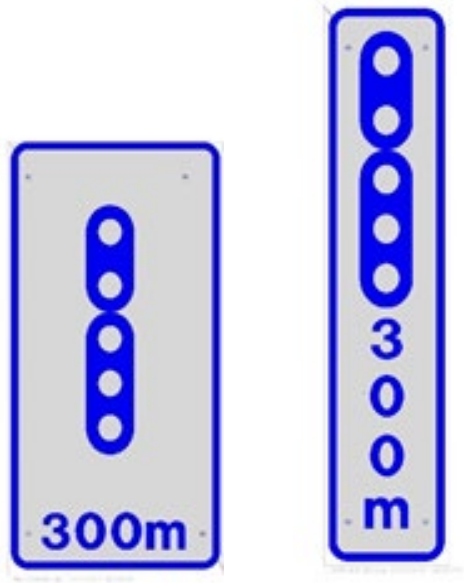

Figure 27 – Signal ahead signs

Table 27 – Signal ahead signs specifications

Parameter	Details – horizontal sign	Details – vertical sign
Manufacturing detail drawing number	M05-080	M05-080
Sign width	600 mm	300 mm
Sign height	1200 mm	1400 mm
Plate thickness	2 mm	2 mm
Character size, type and spacing (where specified)	100 mm series DN	100 mm series DN
Character material	Retro-reflective deep blue (3875)	Retro-reflective deep blue (3875)
Background material	Retro-reflective silver	Retro-reflective silver
Mounting detail drawing number	M05-080	M05-080

Note: Also refer to M05-066.

7.8 Catch point and catch point ahead signs

Figure 28 shows the horizontal and vertical catch point signs. Table 28 lists the specifications for catch point signs.

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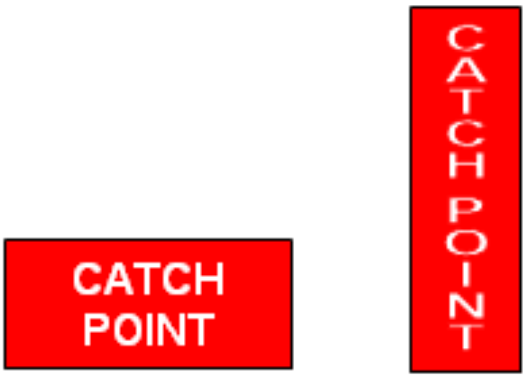

Figure 28 – Catch point signs

Table 28 – Catch point signs specifications

Parameter	Details – horizontal sign	Details – vertical sign
Manufacturing detail drawing number	M05-011	M05-011
Sign width	600 mm	200 mm
Sign height	400 mm	800 mm
Plate thickness	2 mm	2 mm
Character size, type and spacing (where specified)	120 mm series DN	60 mm series F
Character material	Retro-reflective white	Retro-reflective white
Background material	Retro-reflective red	Retro-reflective red
Mounting detail drawing number	M05-011	M05-011

Figure 29 shows the horizontal catch point ahead sign. Table 29 lists the specifications for catch point ahead signs.

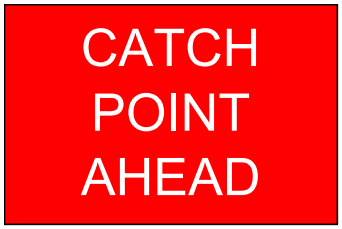

Figure 29 – Catch point ahead sign

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Table 29 – Catch point ahead sign specifications

Parameter	Details
Manufacturing detail drawing number	No drawing identified. Refer to M05-011 for general guidance
Sign width	600 mm
Sign height	550 mm
Plate thickness	2 mm
Character size, type and spacing (where specified)	120 mm series DN
Character material	Retro-reflective white
Background material	Retro-reflective red
Mounting detail drawing number	M05-011

7.9 Block joint signs

Figure 30 shows the horizontal and vertical block joint signs. Table 30 lists the specifications for block joint signs.

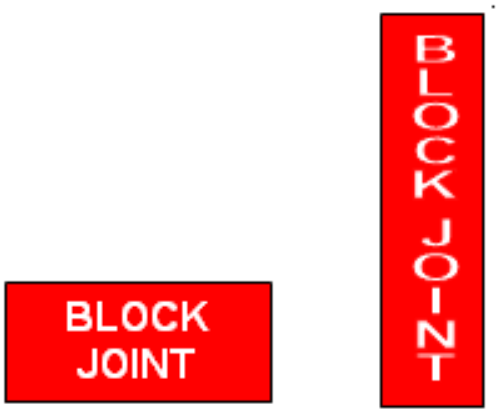

Figure 30 – Block joint signs

Table 30 – Block joint signs specifications

Parameter	Details – horizontal sign	Details – vertical sign
Manufacturing detail drawing number	M05-021	M05-021
Sign width	600 mm	200 mm
Sign height	400 mm	800 mm
Plate thickness	2 mm	2 mm
Character size, type and spacing (where specified)	120 mm series DM	60 mm series F

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Parameter	Details – horizontal sign	Details – vertical sign
Character material	Retro-reflective white	Retro-reflective white
Background material	Retro-reflective red	Retro-reflective red
Mounting detail drawing number	M05-066	M05-066

7.10 Points clearance posts and signs

Figure 31 shows an example of an electric train points clearance sign. Table 31 lists the specifications for electric trains points clearance sign.

Figure 31 – Electric train points clearance sign

Table 31 – Electric train points clearance sign specifications

Parameter	Details
Manufacturing detail drawing number	M05-057
Sign width	290 mm
Sign height	420 mm
Plate thickness	2 mm
Character size, type and spacing (where specified)	Refer to drawing
Character material	Retro-reflective white
Background material	Black non-reflective
Mounting detail drawing number	M05-057

Note: Sign may be 2, 4, 6, 8 or 10 cars, as ordered.

Note: The Mariyung trains consists will be in 4 and 6 car sets coupled to make up to a maximum size of 10 car sets.

Figure 32 shows the V set cars points clearance sign. Table 32 lists the specifications for V set cars points clearance signs.

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Figure 32 – V set cars points clearance sign

Table 32 – V set cars points clearance sign specifications

Parameter	Details
Manufacturing detail drawing number	M05-062
Sign width	290 mm
Sign height	420 mm
Plate thickness	2 mm
Character size, type and spacing (where specified)	Refer to drawing
Character material	Retro-reflective white
Background material	Black non-reflective
Mounting detail drawing number	M05-066

Note: Sign may be 4 or 8 cars, as ordered.

8 Level crossing warning signs

Information in Sections 8.1 to 8.12 related to the manufacture of the railway standard level crossing warning signs are in accordance with AS 1742.7:2016 and AS 1743:2018. TfNSW standard drawing shall take precedence if there be a discrepancy between them and AS 1742.7:2016 and AS 1743:2018.

Note: AS 1742.7:2016 specifies traffic signage to be used to control and warn traffic at, and in advance of, railway crossings at grade.

Note: The term assembly in the context of level crossing warning signs refers to a signage structure which may include support elements and one or more signs and other equipment such as warning lights. Signage structures are defined in

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AS 1742.7:2016. The RX-5 assembly specified in AS 1742.7:2016 is a standard example.

8.1 Railway crossing

Figure 33 shows the railway crossing R6-25 sign in accordance with AS 1742.7:2016.

Figure 33 – Railway crossing R6-25 sign

Refer to M06-263 sheets 1 and 2 for mounting and manufacturing details of the R6-25 sign.

Notes: The R6-25 sign is used with RX-1, RX-2, RX-5 and RX-6 assemblies in accordance with in AS 1742.7:2016.

The R6-25B sign shown on some TfNSW drawings and earlier versions of AS 1742.7 has been superseded by the R6-25 sign.

The RX-6 assembly is used for railway crossing gates. It is not used with boom barriers. Refer to AS 1742.7:2016 for details of where the RX-6 arrangement is used.

8.2 Number of tracks

Figure 34 shows the railway crossing multiple tracks W7-2-2 sign in accordance with AS 1742.7:2016 and shown here with two tracks crossed at the railway crossing.

Figure 34 – Railway crossing 2 tracks W7-2-2 sign

The W7-2-2 sign is used with RX-1, RX-2 and RX-5 assemblies in accordance with AS 742.7:2016.

Refer to M06-212 for mounting and manufacturing details.

Notes: The W7-2-2A sign as shown on some TfNSW drawings and earlier versions of AS 1742.7 has been superseded by the W7-2-2 sign.

The W7-2-2 sign is used with the R6-25 sign in accordance with AS 1742.7:2016.

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8.3 Stop on red signal

Figure 35 shows the railway crossing stop on red signal R6-9 sign in accordance with AS 1742.7:2016.

Figure 35 – Railway crossing stop on red signal R6-9 sign

Refer to M06-212 for mounting and manufacturing details.

Note: The R6-9 sign is used with the RX-5 assembly both of which are prescribed in AS 1742.7:2016.

8.4 Stop here on red signal

Figure 36 shows the railway crossing stop here on red signal R6-6A sign in accordance with AS 1743:2018.

Figure 36 – Railway crossing stop here on red signal R6-6A sign

Refer to M06-212 for mounting and manufacturing details.

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8.5 Actively protected crossings RX-5 signal assembly

Figure 37 shows the typical actively protected railway crossing signal signage RX-5 assembly including R6-25, W7-2-2A and R6-9 signs in accordance with AS 1742.7:2016.

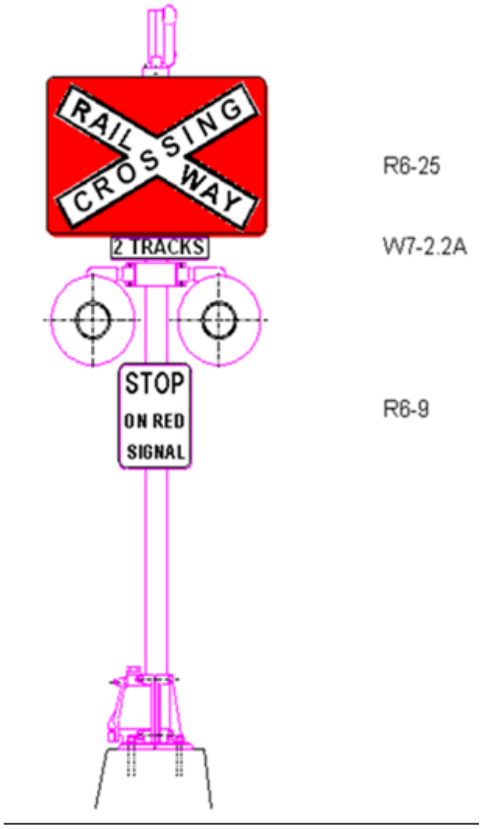

Figure 37 – Actively protected railway crossing signal signage assembly RX-5

8.6 Active protection (lights and siren)

Figure 38 shows the railway pedestrian crossing do not cross whilst lights displayed W7-14-6 sign, where X is the number of tracks, in accordance with AS 1743:2018.

Figure 38 – Railway pedestrian crossing do not cross whilst lights displayed W7-14-6 sign

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Refer to M06-215 for mounting and manufacturing details and M05-244 for details on placements of signage.

8.7 Remotely monitored sites

Figure 39 shows the railway pedestrian crossing remotely monitored site sign, where XXX.XXX is the kilometrage.

Figure 39 – Railway pedestrian crossing remotely monitored site sign

Refer to M06-265 for mounting and manufacturing details and M05-244 for details on placements of signage.

8.8 Cyclists dismount

Figure 40 shows the railway pedestrian crossing cyclists dismount sign.

Figure 40 – Railway pedestrian crossing cyclists dismount sign

Refer to M06-262 for mounting and manufacturing details and M05-244 for details on placements of signage.

8.9 Emergency exit with gate release

Figure 41 shows the railway pedestrian crossing emergency exit with gate release sign.

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Figure 41 – Railway pedestrian crossing emergency exit with gate release sign

Refer to M06-247 for mounting and manufacturing details and M05-244 for details on placements of signage.

8.10 Emergency exit arrow

Figure 42 shows the railway pedestrian crossing emergency exit arrow sign.

Figure 42 – Railway pedestrian crossing emergency exit arrow sign

Refer to M06-247 for mounting and manufacturing details and M05-244 for details on placements of signage.

Note: RH arrow version shown.

8.11 No thoroughfare

Figure 43 shows the railway pedestrian crossing no thoroughfare sign.

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Figure 43 – Railway pedestrian crossing no thoroughfare sign

Refer to M06-244 for mounting, placement and manufacturing details.

8.12 Approach warning sign

Figure 44 shows the railway crossing train drivers approach warning W7-4 sign in accordance with AS 1742.7:2016.

Figure 44 – Railway crossing train drivers approach warning W7-4 sign.

Refer to M06-213 for mounting, placement and manufacturing details.

Note: Where needed, this sign may also be used for road users to give advance warning. Provision of the advance warning sign (for road users) is normally the responsibility of the road authority. The W7-4C sign size specified in AS 1742.7:2016 may be more appropriate in some country situations.

Figure 45 shows an example of a railway crossing location name plate sign.

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Figure 45 – Railway crossing location name plate sign

Level crossing location name plates to be provided when required.

9 Miscellaneous notice signs

9.1 Automatic signal sign

Figure 46 shows the automatic signal sign. Table 33 lists the specifications for automatic signal signs.

Figure 46 – Automatic signal sign

Table 33 – Automatic signal sign specifications

Parameter	Details
Manufacturing detail drawing number	No drawing identified
Sign width	200 mm
Sign height	250 mm
Plate thickness	1.6 mm or 2 mm
Character size, type and spacing (where specified)	180 mm series DM
Character material	Retro-reflective white class 400
Background material	Black non-reflective
Mounting holes centres and diameter	160 mm x 160 mm, 11 mm diameter holes
Mounting	To suit

Note: These details are general and some signs at some locations may vary in size.

Note: C08113 is specific to the ESR and is not retroreflective.

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9.2 Signal designation signs

9.2.1 Repeating signal sign

Figure 47 shows a repeating signal sign. Table 34 lists the specifications for repeating signal signs.

Figure 47 – Repeating signal sign

Table 34 – Repeating signal sign specifications

Parameter	Details
Manufacturing detail drawing number	M01-143 for general guidance
Sign width	600 mm nominal
Sign height	300 mm nominal
Plate thickness	2 mm
Character size, type and spacing (where specified)	80 mm series DM
Character material	Retro-reflective white
Background material	Black non-reflective
Mounting detail drawing number	M01-143

Note: Abbreviation ‘reptr’ may be used at a restrictive clearance location.

Note: Signal name or number text will vary with location.

9.2.2 Distant signal signs

Figure 48 shows two distant signal signs. Table 35 lists the specifications for distant signal signs.

Figure 48 – Distant signal signs

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Table 35 – Distant signal signs specifications

Parameter	Details
Manufacturing detail drawing number	M01-143 for general guidance
Sign width	600 mm
Sign height	300 mm
Plate thickness	2 mm
Character size, type and spacing (where specified)	80 mm series DM
Character material	Retro-reflective white
Background material	Black non-reflective
Mounting detail drawing number	M01-143

Note: Signal name or number text will vary with location.

9.2.3 Co-acting signal sign

Figure 49 shows three examples of co-acting signal identification signs. Table 36 lists the specifications for co-acting signal signs.

Figure 49 – Co-acting signal signs

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Table 36 – Co-acting signal sign specifications

Parameter	Details – co-acting signal sign – large outdoor	Details – co-acting signal sign – medium outdoor	Details – co-acting signal sign – vertical
Manufacturing detail drawing number	M01-143 for general guidance	M01-143 for general guidance	M01-143 for general guidance
Application	Outdoor	Outdoor	Tunnel
Sign width	600 mm	200 mm	160 mm
Sign height	300 mm	160 mm	200 mm
Plate thickness	2 mm	2 mm	2 mm
Character size, type and spacing (where specified)	80 mm series DM	50 mm series CN	50 mm series CN
Character material	Retro-reflective white	Retro-reflective white	Retro-reflective white
Background material	Black non-reflective	Black non-reflective	Black non-reflective
Mounting detail drawing number	M01-143	M01-143	M01-143

Note: Signal identification text will vary with location.

Note: ‘Indicator’ signal signage has been replaced by ‘co-acting’.

9.3 Signal identification signs

9.3.1 Signal identification sign identified by line and distance

Figure 50 shows horizontal and vertical examples of signal identification by line and distance signs. Table 37 lists the specifications for signal identification by line and distance signs.

Figure 50 – Signal identification by line and distance signs

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Table 37 – Signal identification by line and distance signs specifications

Parameter	Details – horizontal sign (standard version)	Details – alternative version
Manufacturing detail drawing number	M01-143	M01-143
Sign width	600 mm	Refer to drawing
Sign height	150 mm	N/A
Plate thickness	2 mm	2 mm
Character size, type and spacing (where specified)	100 mm series DN	Refer to drawing
Character material	Retro-reflective white	Retro-reflective white
Background material	Black non-reflective	Black non-reflective
Manufacturing detail drawing number	M01-143	M01-143

Note: Signal identification text will vary with location.

9.3.2 Signal identification sign identified by controlling lever number

Figure 51 shows horizontal and vertical examples of signal identification by controlling lever number signs. Table 38 lists the specifications for signal identification by controlling lever number signs.

Figure 51 – Signal identification by controlling lever number signs

Table 38 – Signal identification by controlling lever number signs specifications

Parameter	Details – horizontal sign	Details – alternate sign
Manufacturing detail drawing number	M01-143	M01-143 for general guidance
Sign width	600 mm	200 mm
Sign height	150 mm	Refer to drawing
Plate thickness	2 mm	2 mm

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Parameter	Details – horizontal sign	Details – alternate sign
Character size, type and spacing (where specified)	100 mm series DN	100 mm series DN
Character material	Retro-reflective white	Retro-reflective white
Background material	Black non-reflective	Black non-reflective
Mounting detail drawing number	M01-143	M01-143

Note: Signal identification text will vary with location.

9.3.3 Shunt signal identification sign identified by line and distance

Figure 52 shows horizontal and vertical examples of shunt signal identification by line and distance signs. Table 39 lists the specifications for shunt signal identification by line and distance signs.

Figure 52 – Shunt signal identification by line and distance signs

Table 39 – Shunt signal identification by line and distance signs specifications

Parameter	Details – horizontal sign	Details – vertical sign
Manufacturing detail drawing number	M01-143	M01-143
Sign width	400 mm	200 mm
Sign height	90 mm	165 mm
Plate thickness	2 mm	2 mm
Character size, type and spacing (where specified)	50 mm series DN	50 mm series DN
Character material	Retro-reflective white	Retro-reflective white
Background material	Black non-reflective	Black non-reflective
Mounting detail drawing number	M01-143 for general guidance	M01-143 for general guidance

Note: Signal identification text will vary with location.

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9.3.4 ETCS L2 marker board identification sign identified by corridor and distance

Figure 53 shows the horizontal and vertical ETCS marker boards ID plates. Table 40 lists the specifications for ETCS marker boards ID plates.

Figure 53 – ETCS marker boards ID plates

Table 40 – ETCS marker boards ID plates specifications

Parameter	Details – ETCS marker board ID plate – horizontal sign	Details – ETCS marker board ID plate – vertical sign
Manufacturing detail drawing number	M05-603 sheet 1	M05-603 sheet 1
Sign width	600 mm	200 mm
Sign height	150 mm	200 mm
Plate thickness	2 mm	2 mm
Character size, type and spacing (where specified)	100 mm series B	75 mm series B
Character material	Retro-reflective white	Retro-reflective white
Background material	Black non-reflective	Black non-reflective

Notes:

1) First two letters (shown here as AA) are a corridor identifier prefix.

2) Four digits shown here as XXXX are meterage. Where 5 digits are used, characters may be narrow variant.

3) Last two letters on the horizontal plate (shown here as BB) are a line identifier suffix for complex track layouts. Centralise remaining characters to the plate where a line identifier suffix is not required.

9.3.5 ETCS L2 co-acting marker board identification sign identified by corridor and distance

Figure 54 shows the horizontal and vertical ETCS co-acting marker boards ID plates. Table 41 lists the specifications for ETCS co-acting marker boards ID plates.

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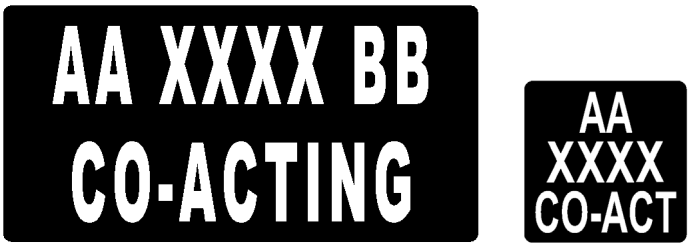

Figure 54 – ETCS co-acting marker boards ID plates

Table 41 – ETCS co-acting marker boards ID plates specifications

Parameter	Details – ETCS co-acting marker board ID plate – horizontal sign	Details – ETCS co-acting marker board ID plate – vertical sign
Manufacturing detail drawing number	M05-603 sheet 2	M05-603 sheet 2
Sign width	600 mm	200 mm
Sign height	300 mm	200 mm
Plate thickness	2 mm	2 mm
Character size, type and spacing (where specified)	100 mm	50 mm
Character material	Retro-reflective white	Retro-reflective white
Background material	Black non-reflective	Black non-reflective

Notes:

1) First two letters (shown here as AA) are a corridor identifier prefix.

2) Four digits shown here as XXXX are meterage. Where 5 digits are used, characters may be narrow variant.

3) Last two letters on the horizontal plate (shown here as BB) are a line identifier suffix for complex track layouts. Centralise remaining characters to the plate where a line identifier suffix is not required.

9.4 Signal building, cabinet and location ID sign

Figure 55 shows an example of a signal building, cabinet and location identification sign.

Figure 55 – Signal building, cabinet and location ID sign

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The material is stainless steel with full depth cut stencil.

Refer to M05-088 for manufacturing details.

Note: Location line text will vary with location.

9.5 Gantry cage signal identification sign

Figure 56 shows an example of a gantry cage signal identification sign. Table 42 lists the specifications for gantry cage signal identification signs.

Figure 56 – Gantry cage signal identification sign

Table 42 – Gantry cage signal identification signs specifications

Parameter	Details
Manufacturing detail drawing number	M01-143
Sign width	760 mm
Sign height	150 mm
Plate thickness	2 mm
Character size, type and spacing (where specified)	100 mm series DN
Character material	Retro-reflective white
Background material	Black non-reflective
Mounting detail drawing number	M01-143

Note: Signal identification text will vary with location.

9.6 Staff warning light sign

Figure 57 shows an example of a staff warning light sign. Table 43 lists the specifications for staff warning light signs.

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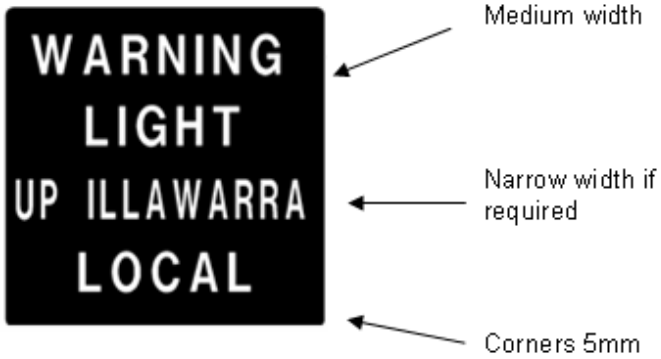

Figure 57 – Staff warning light sign

Table 43 – Staff warning light signs specifications

Parameter	Details
Manufacturing detail drawing number	No drawing identified
Sign width	300 mm
Sign height	200 mm
Plate thickness – material	2 mm aluminium – marine grade 5005 if in corrosive environment
Character size, type and spacing (where specified)	25 mm series D – medium and narrow width letters if required to fit
Character material	Retro-reflective white class 400
Background material	Black non-reflective
Mounting detail drawing number	To suit

Note: Location line text will vary with location.

9.7 Guards indicator sign

Figure 58 shows the guards indicator sign. Table 44 lists the specifications for guards indicator sign.

Figure 58 – Guards indicator sign

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Table 44 – Guards indicator sign specifications

Parameter	Details
Manufacturing detail drawing number	No drawing identified
Sign width	250 mm
Sign height	140 mm
Plate thickness	1.6 mm
Character size, type and spacing (where specified)	25 mm series D – medium or narrow width letters if required to fit
Character material	Retro-reflective white class 400
Background material	Black non-reflective
Mounting detail	To suit

9.8 Pantograph down sign

Figure 59 shows the pantograph down sign. Table 45 lists the specifications for pantograph down signs.

Figure 59 – Pantograph down sign

Table 45 – Pantograph down sign specifications

Parameter	Details
Manufacturing detail drawing number	M05-060
Sign width	250 mm
Sign height	360 mm
Plate thickness	2 mm
Character size, type and spacing (where specified)	N/A
Character material	Symbol – black non-reflective

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Parameter	Details
Background material	Retro-reflective yellow
Mounting detail drawing number	M05-066 for post mount option

9.9 Berth sign

Figure 60 shows the train berth sign. Table 46 lists the specifications for train berth signs.

Figure 60 – Berth sign

Table 46 – Berth sign specifications

Parameter	Details
Manufacturing detail drawing number	M05-086
Sign width	290 mm
Sign height	420 mm
Plate thickness	2 mm
Character size, type and spacing (where specified)	As per drawing
Character material	Retro-reflective white
Background material	Retro-reflective deep blue
Mounting detail drawing number	M05-086

9.10 Safety overrun area sign

Figure 61 shows the safety overrun area sign. Table 47 lists the specifications for safety overrun area signs.

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Figure 61 – Safety overrun area sign

Table 47 – Safety overrun area sign specifications

Parameter	Details
Manufacturing detail drawing number	M05-084
Sign width	1200 mm
Sign height	580 mm
Plate thickness	2 mm
Character size, type and spacing (where specified)	60 mm
Character material	M05-084
Background material	M05-084
Mounting detail drawing number	M05-084

9.11 Timing track marker sign

Figure 62 shows the timing sign. Table 48 lists the specifications for the timing sign.

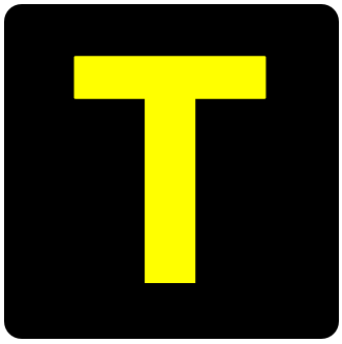

Figure 62 – Timing sign

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Table 48 – Timing sign specifications

Parameter	Details
Manufacturing detail drawing number	M05-027
Sign width	Refer to M05-027
Sign height	Refer to M05-027
Plate thickness	2 mm
Character size, type and spacing	Refer to M05-027
Character material	Retro-reflective yellow
Background material	Black non-reflective
Mounting detail drawing number	M05-066

Note: Available in two sizes.

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Appendix A List of signalling signage not detailed in this specification

Table 49 lists signage likely still in use but not detailed further in the body of the specification.

Note: Some of the signage listed in Table 49, may be obsolete however the list is provided for both current and historic purposes.

Note: Description may be an abbreviation and not necessarily the full drawing title.

Table 49 – Signage – standard drawing numbers

Drawing general description	Drawing number
Eight cars air gap clearance	M05-001
Notice Plate – Enginemen must ensure points are set and …	M05-002
Mounting for signs and diagrams. Note: Obsolete & replaced by M05-066.	M05-004
Mounting for signs and diagrams details for attachment to fences	M05-005
Automatic signalling instruction	M05-008
Stowing limit	M05-009
Stop end of staff section and end of staff section	M05-010
Train crew instruction for level crossing	M05-013
Stop train not to pass until warning lights …	M05-014
#2 Engine road not wired (for Enfield)	M05-015
Emergency working remote cont. interlocking	M05-016
Outer home (OH) horizontal	M05-018
Outer home (OH) vertical	M05-019
Do not move when crossing barriers lowered	M05-020
Identification signs for huts	M05-022
Train staff box locations	M05-023
ID plate mounting bracket	M05-024
ID plate siding number	M05-025
Level crossing notice plate …. Princes highway Unanderra	M05-026
Distinguishing plate accept signal, locally controlled	M05-028
Distinguishing plate accept signal, remote controlled	M05-029
Non interlocked area	M05-030

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Drawing general description	Drawing number
Drivers instruction plate – This signal is to be passed at stop when ….	M05-035
Special proceed authority sign stating: Drivers when passing this signal at stop in accordance with the regulations must proceed with caution to the next signal being prepared to stop short of any obstruction.	M05-042
Important wind both ends	M05-048
Worksite protection location	M05-056
Points requiring clipping …	M05-059
Special proceed authority sign stating: This signal must not be passed at stop except on the authority of a special proceed authority or during pilot staff working.	M05-064 sheet 3
Danger SWMS maintain signal	M05-087
ATP LEU location meter attachment warning	M05-564
Railway Crossing Sign Assembly Details (Obsolete)	M06-204
ESR A and OH plates	C08113
Intermediate signal crossover sign stating: Drivers when directed to pass this signal at stop must proceed at restricted speed and bring their train to a stop well clear of (*name of crossover*) crossover and must not restart until satisfied that it is safe to do so.	Drawing may not exist. White lettering on black background.
Intermediate signal siding sign stating: Drivers when directed to pass this signal at stop must proceed at restricted speed and bring their train to a stop well clear of (*name of siding*) siding and must not restart until satisfied that it is safe to do so.	Drawing may not exist. White lettering on black background.

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