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RMS is not under any duty to inform you of any errors in or changes to this Specification.
## RECORD OF AMENDMENTS

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<th>Summary</th>
<th>Date</th>
<th>Approved by</th>
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1 SCOPE

This Specification covers the requirements for the manufacture of standard traffic signal posts for use in New South Wales for traffic control signals.

This Specification excludes mast arms, which are separately specified.

This Specification excludes “accessible” traffic signal posts that provide some mechanism to some or all of the post to facilitate access to mounted equipment on the post.

This Specification excludes “Passive Safety Posts”.

Note 1: This Specification supersedes RMS Specification No. P/6 of the same title

Note 2: This specification primarily uses standard drawings to convey technical requirements, rather than providing full descriptions of the underlying functional needs in text form. These standard post drawings form part of a suite of hardware designed to work together.

2 DEFINITIONS AND GLOSSARY OF TERMS

For the purposes of this Specification, the following definitions and abbreviations shall apply:

RMS — Roads and Maritime Services; a New South Wales Government Agency

3 STANDARD SPECIFICATIONS

The manufacture of the traffic signal posts shall comply with the relevant requirements in the current issues of the following Australian Standards except where otherwise indicated in this Specification:

AS 1074 - Steel tubes and tubulars for ordinary service
AS 1111 - ISO metric hexagon commercial bolts and screws
AS 1112 - ISO metric hexagon nuts
AS 1163 - Cold-formed structural steel hollow sections
AS 1214 - Hot-dip galvanized coatings on threaded fasteners (ISO metric coarse thread series)
AS 1252 - High strength steel bolts with associated nuts and washers for structural engineering
AS 1554 - Structural steel welding - welding of steel structures
AS 1798 - Lighting poles and bracket arms – Recommended dimensions
AS 2338 - Preferred dimensions of wrought iron metal products
AS 2339 - Traffic Signal posts and attachments
AS 3678 - Structural Steel - Hot-rolled plates, floorplates and slabs
AS 3990 - Mechanical equipment - Steelwork
AS 4100 – Steel Structures
AS 4680 – Hot-Dip galvanized (zinc) coatings on fabricated ferrous articles
ISO 9001 – Quality management systems - Requirements

TRAFFIC SIGNAL POSTS (Copyright RMS 2015)
4 DRAWING ISSUES

It is to be noted that any drawing referred to in this Specification shall be the drawing issue which is current at the time of tendering unless otherwise agreed in writing between the Roads and Maritime Services (RMS) and the Supplier.

Where copies of any of the drawings referred to in this Specification are not already provided, the Tenderer may obtain the necessary copies from RMS via the ITS HelpDesk (ITSHelpdesk@rms.nsw.gov.au)

5 TECHNICAL REQUIREMENT

5.1 General

The traffic signal posts are used for the support of RMS equipment including lanterns providing signal indications to both vehicle and pedestrian traffic, pedestrian push-button switches, and signs. Some posts may support post mounted traffic signal control cabinets.

Type 2 posts are designed to be bolted down on a prepared concrete footing, whereas Type 1 posts are used only at sites where site conditions prevent the installation of the required footing for a Type 2 post.

Type 1 posts are designed to be directly buried in a concrete base. In order to provide more stability of the post in its installation, a base plate is required to be bolted at the base of the Type 1 post, the details are shown in RMS drawing VM201-16 and VM201-17.

Type 6 posts are used as a means of supporting advisory signs as well as traffic signal hardware, and may be used to support cameras of various types.

Type 13 posts are used for mounting pedestrian Push Buttons.

Appendix A lists the manufacturing drawings for the various types of posts.

5.2 Material

The material for the various items covered by this Specification shall be in accordance with the current issues of drawings listed in Appendix A of this Specification.

Type 1 and Type 2 posts may be manufactured from separate sections of tube provided that:

(a) the weld is not less than 2 m from the bottom end;

(b) the joint shall be a full-penetration weld Type H-C2b as specified in AS1554.1:2014

(c) the weld is ground flush; and

(d) no more than two joints per post are used.

Each Type 6 post shall be manufactured from single lengths of tube. The joining of similar tube sections to achieve the required length for a Type 6 post will not be permitted.

5.3 Fabrication

Fabrication of the various items covered by this Specification shall be in accordance with the current issues of drawings listed in Appendix A of this Specification.
5.4 Finish

The fabricated items shall be free from welding scale, sharp corners and projections. After completion of all manufacturing operations, all steel fabricated components shall be hot-dip galvanised in accordance with AS 4860. The galvanised surface shall be free from sharp projections, dross and dags.

5.5 Manufacturer’s Identification.

Each post shall be clearly marked with the following information:

(a) the manufacturer’s identification;
(b) a traceability code, such as the production batch number

The marking shall be legibly and durably applied by etching, punching or engraving.

6 QUALITY ASSURANCE

6.1 General

The Supplier and the manufacturer shall operate a quality management system complying with ISO 9001.

6.2 Third Party Accreditation

The quality management system shall be certified by a quality management system certification body either accredited under the criteria laid down in the Joint Accreditation System of Australia and New Zealand (JAS-ANZ), or listed in the International Standards Organisation ISO Directory of ISO 9000 and ISO 14000 Accreditation and Certification Bodies.

6.3 Quality plan

The manufacturer shall document a quality plan appropriate to the item detailing the quality control tests and assessments the manufacturer will conduct during manufacture prior to release. This shall include sampling plans and test frequency, and a description of the records to be made, as relevant. A copy of this plan shall be provided by the supplier to RMS when requested as part of the approval process.

6.4 Quality Audits

RMS reserves the right to examine the Manufacturer's quality records pertaining to order for posts. RMS also reserves the right to arrange for an independent quality audit concerning traffic signal posts in contract.
7 TESTING AND INSPECTION

7.1 Routine Production Tests

Tests and assessments shall be carried out by the manufacturer before Pre-delivery Acceptance Test, as defined in the manufacturer’s quality plan.

7.2 Pre-delivery Acceptance Tests

All posts covered by this Specification shall be subject to a pre-delivery inspection at the Manufacturer's Works or Agent's Premises in the Sydney area prior to delivery.

In this context the inspection shall include an examination of the goods and a check of the Manufacturer’s quality records. Before leaving the Supplier's premises the Authority's Inspector will issue the Supplier with documentation to confirm that the goods:

(a) have been accepted and are cleared for delivery; or
(b) have been rejected for stated reasons; or
(c) are subject to further verification for stated reasons.

The Supplier shall give RMS Inspectors at least two working days' notice of the availability of the goods for pre-delivery inspection.

8 WARRANTY

Purchase of any items under this Specification shall be subject to a warranty period, to be confirmed by the Tenderer, of not less than 24 months following the date of despatch from the Manufacturer's Works or Agent's Premises to RMS Store. Any post failed in service or found to be defective within 24 months of the date of despatch will be delivered to the Supplier, who shall then make good the defect or arrange to have the defect made good, and subsequently return the good unit to RMS at no charge to RMS. Unless otherwise agreed, defective posts shall be processed and returned within 60 calendar days from the date the Supplier is notified by RMS of the defect.

It is expressly understood that any post failed as a result of a traffic accident, abuse or act of vandalism after delivery to RMS will not be covered by warranty provisions.

9 INFORMATION TO BE SUPPLIED BY TENDERERS

With the tender or quotation the Tenderer shall indicate if the posts offered comply fully with the requirements of this Specification. Any departures shall be fully described.

The Tenderer shall confirm particulars of the warranty requirements referred to in clause 8; or provide information on the alternative warranty being offered.

Failure to furnish the full information called for in this clause, and the associated quotation documents, shall render the tender liable to rejection.
# APPENDIX A – SCHEDULE OF MANUFACTURING DRAWINGS

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td>Type 1 Post 3.9 m long</td>
<td>VM201-16</td>
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<tr>
<td>Type 1 Post - base plate</td>
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</tr>
<tr>
<td>Type 2 Post 3.2 m long</td>
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</tr>
<tr>
<td>Type 2 Post 4.1 m long</td>
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<td>Type 2 Post 4.6 m long</td>
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<tr>
<td>Type 2 Post 5.2 m long</td>
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<td>Adaptor plate for a Type 2 post on a Type 5 mast-arm footing or a Type 6 post footing</td>
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<td>Type 13 Push Button Post</td>
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<td>Mechanical and assembly details of Type 6 Post</td>
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*Note: See clause 4 as regards currency of drawing issues.*