

# TfNSW QA SPECIFICATION M321

## LANDSCAPE MAINTENANCE

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### REVISION REGISTER

Ed / Rev Number	Clause Number	Description of Revision	Authorised By	Date
<b>M317</b>				
Ed 1 / Rev 0		First edition	GM, RNIC	11/11/04
Ed 1 / Rev 1	Notes & 1.1	New clauses re use of specification	GM, IC	31.08.07
Ed 1 / Rev 2	Most	Format corrected	GM, IC	24.10.07
<b>M321</b>				
Ed 2 / Rev 0	All	To match new Maintenance Activities: <ul style="list-style-type: none"><li>• Changed number</li><li>• Changed Pay Items</li></ul> Changed references to other similarly changed specifications Changed internal referencing format	GM, IC	04.08.08
	5.3	Added clause re Accomplishment reporting.		
Ed 2/Rev 1	Global	References to “Roads and Maritime Services” or “RMS” changed to “Transport for NSW” or “TfNSW” respectively.	DCS	22.06.20



# TfNSW QA SPECIFICATION M321

## LANDSCAPE MAINTENANCE

### GUIDE NOTES

(Not Part of Contract Document)

#### **THESE NOTES ARE NOT PART OF THE SPECIFICATION, CONTRACT OR AGREEMENT.**

The following notes are intended to provide guidance to TfNSW personnel on the application of the Specification. They do not form part of the Specification, Contract or Agreement.

#### **USING THIS SPECIFICATION**

This specification has been specifically developed for TfNSW maintenance works. It should not be used without a review of its suitability for the application and in the contractual environment.

It is a QA specification. The use of QA specifications requires the implementation of a quality system by the service provider which meets the quality system requirements specified in TfNSW Q.

#### **EDITION 2**

This is a new edition of the specification renumbered to suit the 2008 renumbering of the Maintenance Activities. Further improvement and upgrading based on field experience is expected. Comments and suggestions for improvement should be forwarded to the RMCC Delivery & Performance Manager, Regional Maintenance delivery, Asset Maintenance.

#### **DETAILS OF WORK**

The details provided in Annexure M321/A must be adequate to fully define the work required.





Transport  
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QA SPECIFICATION M321

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# LANDSCAPE MAINTENANCE

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RNIC-QA-M321

VERSION FOR: DATE:
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## FOREWORD

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### REVISIONS TO PREVIOUS VERSION

This document has been revised from Specification TfNSW M321 Edition 2 Revision 0.

All changes to TfNSW M317 Edition 1 Revision 2 (other than minor editorial and project specific changes) have been indicated by a vertical line in the margin as shown here.

### PROJECT SPECIFIC CHANGES

Any project specific changes have been indicated in the following manner:-

- (a) Text which is additional to the base document and which is included in the Specification is shown in bold italics e.g. ***Additional Text***.
- (b) Text which has been deleted from the base document and which is not included in the Specification is shown struck out e.g. ~~Deleted Text~~.



## TfNSW QA SPECIFICATION M321

### LANDSCAPE MAINTENANCE

#### 1 GENERAL

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- |     |   |                                |
|-----|---|--------------------------------|
| 1.1 | Specification TfNSW M321 has been developed specifically for TfNSW maintenance works. It should not be used in any type of contract without consideration of its suitability in the prevailing circumstances.   | <b>Intended use</b>            |
| 1.2 | This Specification describes the requirements for the maintenance of the vegetated and landscaped areas. It includes weed control, mowing, pruning, mulching, pest and disease control, watering and maintenance of irrigation systems.   | <b>Scope</b>                   |
| 1.3 | Some words or abbreviations have a special meaning in this specification and they are explained in Annexure M321/M. These words are highlighted in capitals eg DEFINED TEXT.  | <b>Definitions</b>             |
| 1.4 | The standards, specifications and test methods referred to by this specification are referenced using an abbreviated form (eg AS 1478). The titles are given in Annexure M321/M.  | <b>Referenced documents</b>    |
| 1.5 | Unless specified otherwise, the issue of an Australian Standard or TfNSW Test Method to be used is the issue current one week before closing date for tenders. The TfNSW specification to be used is the issue contained in the contract documentation.   | <b>Applicable issue</b>        |
| 1.6 | Details of work to be carried out under the Specification are described in Annexure M321/A.   | <b>Details of work</b>         |
| 1.7 | Payment for the activities associated with completing the work detailed in this Specification must be made using the Pay Item(s) referred to in Annexure M321/B.  | <b>Measurement and payment</b> |
| 1.8 | YOU must provide all responsibilities, such as actions, works, supply of materials, unless specifically stated otherwise. Accordingly, this specification does not generally use wording such as "the YOU shall ..." or "YOU must ..." because this is the underlying requirement. However, it is used where actions in a clause involve both YOU and the PRINCIPAL and the roles need to be unambiguous. | <b>Interpretation</b>          |
| 1.9 | Provide the identified records set down in the TfNSW Quality Management System Specification included in the Contract Documents ("TfNSW Q") and summarised in Annexure M321/C2 hereof.  | <b>Records</b>                 |

## 2 PLANNING

### 2.1 PROJECT QUALITY PLAN REQUIREMENTS

2.1.1 The requirements of the PROJECT QUALITY PLAN are defined in TfNSW Q. In addition, the PROJECT QUALITY PLAN must address the following requirements:

- |    |   |                                       |
|----|---|---------------------------------------|
| .1 | Address the HOLD POINTS and WITNESS POINTS required by this specification and summarised in Annexure R321/C1. The PRINCIPAL will consider the submitted documents prior to authorising the release of any HOLD POINT. | <b>Hold Points and Witness Points</b> |
| .2 | Address each of the construction process requirements listed in this Specification.   | <b>Construction process</b>           |
| .3 | Include a requirement for the routine submission of data, which will certify conformity of all work and materials to the Specification's requirements and include supporting documentation (refer Table 2).           | <b>Conformity data</b>                |
| .4 | Be submitted to the PRINCIPAL at least 5 BUSINESS DAYS prior to the commencement of work.   | <b>Submission</b>                     |

- |       |   |                   |
|-------|---|-------------------|
| 2.1.2 | <b>Process Held:</b> Commencement of work   | <b>HOLD POINT</b> |
|       | <b>Submission:</b> PROJECT QUALITY PLAN conforming to requirements in Clause 2.1.   |                   |
|       | <b>Release of Hold Point:</b> The PRINCIPAL will consider the submitted documents before authorising the release of the HOLD POINT. |                   |

## 3 RESOURCES

### 3.1 MULCH

- |       |   |                          |
|-------|---|--------------------------|
| 3.1.1 | Mulch used in the maintenance of landscape planting must be derived from trees and shrubs (other than weeds) obtained during clearing and pruning works on the site. If the mulch produced in this way is insufficient, the shortfall must be made up by using imported woodchip. | <b>Source</b>            |
| 3.1.2 | Imported woodchip must comply with the following requirements:  | <b>Imported woodchip</b> |
| .1    | Woodchip must only be derived from waste timber. Under no circumstances will the PRINCIPAL accept woodchip, derived from trees that have been specifically harvested for that purpose.  |                          |

- .2 The material must comprise hardwood chips with not more than 5% fines by volume, except for pine-flake which may be used as per Clause 4.5.3.1. The material must not contain any bark.
- .3 The average size of the woodchip must be approximately 30 mm x 20 mm x 5 mm and the maximum length of chip is not to exceed 50 mm, and
- .4 It must be free of soil, weeds, stones, vermin, insects or other foreign material.

3.1.3 YOU must test the mulch for conformity prior to using the mulch.

**Testing**

3.1.4 **Process Held:** Source of woodchips.

**HOLD POINT**

**Submission Details:** The source of woodchips prior to supply. Provide written confirmation regarding compliance with the stated origin.

**Release of Hold Point:** The PRINCIPAL will consider the nominated source before authorising the release of the HOLD POINT.

## 3.2 WATER

Water applied to plants must be potable or obtained from a source which contains no toxins or pollutants or any substance which would adversely affect the growth of any of the plants.

## 3.3 PESTICIDES

Pesticides must be glyphosate based unless directed otherwise.

## 3.4 TRADES PERSONS

All pruning work must be carried out by a competent landscape trades person who is experienced in pruning techniques. The minimum educational requirement for personnel engaged in site supervision must be NSW TAFE Landscape Trade Certificate or equivalent.

## 4 EXECUTION

---

### 4.1 PROTECTION OF EXISTING VEGETATION

- |       |  |                                    |
|-------|--|------------------------------------|
| 4.1.1 | Existing vegetation must be preserved and protected except where specified or directed otherwise.  | <b>Protect existing vegetation</b> |
| 4.1.2 | The work must be organised so as to minimise damage to existing vegetation. Protective measures must include: <ul style="list-style-type: none"> <li>.1 Movement of plant and machinery over and disturbance to existing vegetation must be kept to a minimum. Vehicles must not be parked in vegetated or mulched beds.</li> <li>.2 Deleterious material including oil, petrol, cement, bitumen, spillage from washing operations and similar contaminants must be kept clear of mulch, trees, shrubs and grass including their root systems.</li> <li>.3 Materials must not be stockpiled over root systems.</li> <li>.4 Damage to overhead tree trunks or canopies by machine or truck operations must be avoided.</li> </ul> | <b>Protective measures</b>         |
| 4.1.3 | New planting and young trees must be maintained to ensure that they are not 'choked' by supporting ties.   | <b>Avoid choking new plantings</b> |
| 4.1.4 | Maintain the tree guards around young plants so that the natural plant growth is not impeded or restricted. Damaged and missing tree guards must be replaced as soon as practicable after being identified.  | <b>Tree guards</b>                 |
| 4.1.5 | Damage to the existing vegetation caused by YOUR operations must be rectified at YOUR expense.   | <b>Damage</b>                      |

### 4.2 PRUNING AND REMOVAL OF DEAD PLANTS

- |       |  |                       |
|-------|--|-----------------------|
| 4.2.1 | Dead plants must be removed immediately on identification.   | <b>Dead plants</b>    |
| 4.2.2 | All pruning must be in accordance with AS 4373.  | <b>Pruning</b>        |
| 4.2.3 | General pruning (PRUNING TYPE G) must be carried out in all LANDSCAPE PLANTING BEDS. This type of pruning consists of the removal of dead, diseased, dying, defective and conflicting branches. The diameter of branches to be removed, at the point of pruning, must be at least 20 mm. | <b>Type G pruning</b> |
| 4.2.4 | Deadwood (PRUNING TYPE D) pruning is required in all areas. This type of pruning involves the removal of deadwood from the tree. The diameter of branches to be removed, at the point of pruning, must be at least 20 mm.  | <b>Type D pruning</b> |

- 4.2.5 Deadwood with hollows which may provide wildlife habitat must not be removed unless it is in a dangerous condition. **Deadwood with hollows**
- 4.2.6 **Process Held:** Removal of deadwood with hollows which may provide wildlife habitat but which is in a dangerous condition. **HOLD POINT**

**Submission Details:** Provide a written report identifying the plants affected at least 5 BUSINESS DAYS prior to removal. The report must include verification that each hollow has been inspected for evidence of wildlife habitation and identification of the plants which may be currently inhabited.

**Release of Hold Point:** The PRINCIPAL must consider the submitted documents and may inspect the site prior to authorising the release of the HOLD POINT.
- 4.2.7 All material, including prunings, from native trees and shrubs must be converted to mulch for use during landscape maintenance under the CONTRACT. Under no circumstances must weeds or exotic species be used to make mulch. **Convert all material to mulch**
- 4.2.8 If mulch needs to be stockpiled, it must be stockpiled to a height not exceeding 2 m and a width not exceeding 8 m in an area approved by the PRINCIPAL. The stockpile must be monitored and turned over as required to avoid spontaneous combustion. **Stockpiling mulch**
- 4.3 GRASS AND WEED REMOVAL**
- 4.3.1 Remove all undesirable vegetation growth where weed infestation and/or grass exceed the intervention standards defined in Table 1. **Intervention standard**
- 4.3.2 Weeds which cannot be controlled by pesticide must be removed by hand. The entire weed must be removed including all roots. **Removal of weeds**
- 4.3.3 Dead weeds must be lopped flush with the ground surface and removed from the site. **Remove weeds from site**

Table 1 – Weed intervention standards

Condition	Measurement	Intervention Standard			
		Cat A <sup>1</sup>	Cat B <sup>1</sup>	Cat C <sup>1</sup>	Cat D <sup>1</sup>
.1 Weeds, grass or other undesirable vegetation within TYPE 1 BED must not exceed:	Area affected (in any 10 m <sup>2</sup> )	10%	10%	15%	15%
.2 Weeds, grass or other undesirable vegetation within TYPE 2 BED must not exceed:	Area affected (in any 10 m <sup>2</sup> )	20%	20%	30%	30%
.3 Weeds, grass or other undesirable vegetation within TYPE 1 BED must not exceed:	Height	100 mm	100 mm	150 mm	150 mm
.4 Weeds, grass or other undesirable vegetation within TYPE 2 BED must not exceed:	Height	200 mm	200 mm	250 mm	250 mm
.5 Weeds, grass or other undesirable vegetation within TYPE 3 BED must not exceed:	Height	300 mm	300 mm	400 mm	400 mm
.6 Remove weeds from within landscaped areas (any type) before they are:	Condition of weed	In flower	In flower	In flower	In flower

Note 1: Refer to TfNSW M1 (Annexure M1/A1) for road category definition.

- 4.3.4 YOU must pick up litter prior to mowing to ensure litter is not transformed into confetti-like pieces. YOU must move fallen timber to an adjacent area in the road reserve, clear of drainage lines, that are not subject to mowing or slashing. **Prior to mowing**
- 4.3.5 Unless directed otherwise, the cut grass height must not be less than 20 mm nor greater than 75 mm high. The upper limit may be varied to account for terrain, species of grass and presence of debris. **Mowing and slashing**
- 4.3.6 Unless approved otherwise by the PRINCIPAL, mowing operations must cease during periods of “total fire ban”; see Specification TfNSW G36. **Cease during total fire bans**
- 4.3.7 Ensure that uncut grass between passes or around or under trees or road furniture is kept to a minimum. This may necessitate periodic hand control or the use of pesticides. **Minimise uncut areas**
- 4.3.8 Clippings must remain where they fall except that the road surface, lined drains, and all footways or other paved areas must be swept clear of clippings. **Clippings**

#### 4.4 USE OF PESTICIDES

- 4.4.1 YOU may use pesticides to minimise vegetation growth and to control NOXIOUS or ENVIRONMENTAL WEEDS. Pesticide spraying must be done strictly in accordance with the Pesticides Act 1999. **Use of pesticides**
- 4.4.2 Plants must be sprayed to control disease and insect infestation when and where required or as directed by the PRINCIPAL. **Pest and disease control**
- 4.4.3 Spraying must not be undertaken where insecticide could fall into a watercourse or when wind conditions could cause drift outside the area to be treated. Pesticides must not be used in areas identified by the PRINCIPAL. **Restrictions on use of pesticide**

- 4.4.4 **Process to be witnessed:** Use of pesticides **WITNESS POINT**

**Submission Details:** The PRINCIPAL must be informed 3 BUSINESS DAYS before the intended time of spraying pesticide. This provides the PRINCIPAL with an opportunity to monitor the appropriateness of the specific environmental safeguards adopted.

- 4.4.5 All spraying must be carried out so as to avoid damage to surrounding vegetation and minimal disturbance to soil surface and in accordance with any LAW. Non-target areas must be reinstated to their original form if damaged by spraying activities. **Avoid damage**
- 4.4.6 Empty pesticide containers must be triple rinsed in accordance with Technical Appendix 3 of the EPA's Environmental Guidelines: Assessment, Classification & Management of Liquid & Non-Liquid Wastes. **Pesticide containers**
- 4.4.7 A record must be made of the use of pesticides. The Pesticide Application Record Sheet (see Annexure M321/L) must be filled in accordingly. YOU are exempt from completing this Record Sheet where all of the following are satisfied: **Pesticide application record sheet**
- .1 The pesticide is only applied by hand or by using hand-held equipment, and
  - .2 Application rate is no more than 5 litres / 5 kilograms of concentrated product or 20 litres / 20 kilograms of the ready-to-use product.
- 4.4.8 Areas sprayed with pesticide must remain undisturbed for two weeks or as recommended by the manufacturer, whichever is the longer period. **Sprayed area to remain undisturbed**

#### 4.5 MULCH

- 4.5.1 Mulched areas should be reinstated as necessary to minimise and prevent the growth of weeds. **Mulch as necessary**

4.5.2	The mulch must be placed over the existing weed-free mulched area and must be kept clear of plant stems.	<b>Placing mulch</b>
4.5.3	To avoid mulch being washed into drainage pits the following measure must be implemented:  .1 In the vicinity of drainage pits lay pine-flake as mulch instead of hardwood chips. The pine-flake must be held in place by biodegradable bird netting on steep batters (> 1:4 slope) to prevent wash out.  .2 Install a 200 mm high silt fence around the drainage pit apron, held in place by hardwood pegs at each corner, to catch all likely mulch carried off by stormwater. The silt fence will require periodic maintenance to clear away debris following storms.	<b>Avoid mulch being washed into drainage pits</b>
4.5.4	Maintain mulched areas in a weed free condition as specified in Clause 4.3.	<b>Weed control</b>
<b>4.6 WATERING</b>		
4.6.1	Watering must be carried out in accordance with the PRINCIPAL'S directions. Watering by the use of an irrigation system must be in accordance with the times defined in Annexure M321/A2.	<b>Frequency</b>
4.6.2	YOU must comply with water restrictions that are in force and any other requirements of the relevant water authority. The PRINCIPAL may request that YOU seek an exemption to the imposed restrictions from the relevant water authority.	<b>Comply with water authority requirements</b>
4.6.3	Watering, other than by the use of an irrigation system, must ensure that each plant receives at least twenty (20) litres of water each time it is watered.	<b>Water application rate</b>
4.6.4	Notify the PRINCIPAL in advance of each watering (except by irrigation system) for verification of payment purposes.	<b>Notify when watering</b>
4.6.5	The frequency of watering may be varied during periods of adequate rainfall and in accordance with the PRINCIPAL'S directions.	<b>Varying frequency of watering</b>
<b>4.7 MAINTENANCE OF IRRIGATION SYSTEMS</b>		
4.7.1	The location and other details of irrigation systems to be maintained are specified in Annexure M321/A2.	<b>Location of irrigation systems</b>



- |       |  |                             |
|-------|--|-----------------------------|
| 4.7.2 | Irrigation systems must be maintained in full working order. Outlets must be cleaned, adjusted, repaired or replaced as necessary and leaking pipes and fittings repaired or replaced. The timer and any sensors must be maintained in accordance with the manufacturer’s recommendations and adjusted as required to ensure that watering is carried out at the times and for the periods required according to the season and water restrictions (if any). | <b>General requirements</b> |
| 4.7.3 | Check all heads for water delivery, spray arc, and droplet size. Deviations from their normal performance will require servicing of the sprinkler head. Check that the head has not sunken in the ground and that water flow is unobstructed. Make appropriate adjustments if watering pattern is hitting road surfaces or footpaths.  | <b>Sprinkler heads</b>      |
| 4.7.4 | Vandalism and damage by others must be promptly reported to the PRINCIPAL. Repairs resulting from vandalism will be subject to additional payment.   | <b>Vandalism</b>            |

## 5 CONFORMITY

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### 5.1 GENERAL

- |       |  |                                       |
|-------|--|---------------------------------------|
| 5.1.1 | Landscaping works must comply with the process controls and conformity criteria listed in Table 2.   | <b>Process control and conformity</b> |
| 5.1.2 | A certificate, from the supplier, must accompany supply of all materials to certify that their quality complies with this Specification. The PRINCIPAL, at its option, may request such documentation for audit. | <b>Supply of materials</b>            |

Supplied materials found to be nonconforming must not be used in the WORKS.

**Table 2 – Process controls and conformity criteria**

Item	Clause	Property	Test method	Criteria	Minimum Testing Frequency
■ Protection of existing vegetation	4.1.2	Protective measures	Inspection	See Clause 4.1.2	When on-site
	4.1.3	Condition of existing vegetation	Inspection	Rectify damage	When on-site
■ Pruning	4.2	PRUNING TYPE G and D	Inspection	AS 4373	6 monthly
	4.2.5	Deadwood with hollows	Inspection	Remove if dangerous and Clause 4.2.5	Monthly
	4.2.7	Convert to mulch	Inspection	Clause 4.2.6	As necessary
	4.2.8	Stockpile mulch	Measure	Max. height 2 m and max. width 8 m	After placing
	4.2.8	Avoid spontaneous combustion	Inspection	Turn over material	As necessary
■ Grass and weed removal	4.3.4	Litter	Inspection	Mowing area litter-free	Before cutting
	4.3.5	Grass height	Measure	Not < 20 mm nor > 75 mm	After cutting
	4.3.6	Total Fire Bans	Assess	Do not commence mowing	Before cutting
	4.3.8	Clippings	Inspection	Remove from paved areas	After cutting
■ Pesticides	4.4.3	Restriction on use	Inspection	Clause 4.4.3	Before applying
	4.4.6	Containers	Inspection	Triple rinse	As necessary
■ Mulch	4.5.2	Care in applying mulch	Inspection	Keep clear of plants	After applying
■ Watering	4.6	Water application rate	Measure	At least 20 litres / plant	When watering
■ Irrigation systems	4.7.2	Irrigation system – general	Inspection	Full working order	When watering
	4.7.3	Sprinkler heads	Inspection	Clause 4.7.3	When watering

## 5.2 ACCOMPLISHMENT REPORTING

The accomplishment of conforming work must be reported as set down in Table 3.

**Table 3.**

Code	Description	Spec	UOM	Accomplishment Reporting
321	Landscaping maintenance	M321	m <sup>2</sup>	Report square metre of landscape maintained

## ANNEXURE M321/A – DETAILS OF WORK

### A1 LANDSCAPED AREAS

Location					Approximate Area or width (m <sup>2</sup> or m)	Specific details
Road	Start Location	End Location	Side	Type <sup>i</sup>		

**Notes:**

- i The different types of landscape planting beds (refer Annexure M321/M).

### A2 IRRIGATION SYSTEMS

Location				Specific details (Eg. watering frequency and duration of watering)
Road	Start Location	End Location	Side	

## ANNEXURE M321/B – MEASUREMENT AND PAYMENT

### B1 GENERAL

- B1.1 Pay items are identified in Annexure M321/B2. **Pay Items to be used**
- B1.2 The price(s) of pay items with a quantity of work in the schedule must be costed with due allowance for all costs of the activity. **Prices**
- Any pay item with a quantity of work that is not priced is understood to be included in other priced pay items.
- B1.3 Any overheads must be distributed between pay items. **Overheads**
- B1.4 Pay items with a quantity of work specified must not be tendered as a lump sum price. **No Lump Sum**
- B1.5 YOU are not paid for any rework required to achieve conformity. **No payment**

### B2 SCHEDULE OF PAY ITEMS

The maintenance code, item name/description and units of measure are described below:

Pay Item *	Item Name and Description	What to claim and Units
M321P1	<b>Landscape maintenance</b> Payment includes all costs of maintaining landscaped areas including: <ul style="list-style-type: none"> <li>• Watering from water mains ,</li> <li>• Operation of any irrigation system,</li> <li>• Waste removal and</li> <li>• Mulching.</li> </ul>	<b>Area of landscape maintained.</b>  <b>m<sup>2</sup></b>
M321P2	<b>Maintenance watering – no mains water available</b> Payment includes all costs of supply and transport of the water.	<b>The volume of water as determined by calibrated dipstick readings or other approved method.</b> <b>Unit - kilolitre</b>
<p>* Pay Items are primarily for guidance in preparing Work Orders (which can be Lump Sum or Schedule of Rates).</p> <p>When preparing a Work Order, any or all of the Pay Items may be incorporated: the aim is to improve the accuracy of the Service Provider's estimation and pricing by:</p> <ol style="list-style-type: none"> <li>a) selecting those Pay Items which denote the activities that are to be undertaken and</li> <li>b) requiring the Service Provider to estimate and price each Pay Item individually.</li> </ol> <p>When Traffic Control is a significant cost, its specific Pay Item(s) must be incorporated. See TfNSW G10M for a list of these.</p>		

## **ANNEXURE M321/C – SCHEDULES OF HOLD POINTS, WITNESS POINTS AND IDENTIFIED RECORDS**

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### **C1 SCHEDULE OF HOLD POINTS AND WITNESS POINTS**

Reference Clause	Type	Process Held
2.1.2	HOLD POINT	Commencement of work.
3.1.4	HOLD POINT	Use of woodchips.
4.2.5	HOLD POINT	Removal of deadwood.
4.4.4	WITNESS POINT	Use of pesticides.

### **C2 SCHEDULE OF IDENTIFIED RECORDS**

Reference	Description of Identified Record
Clause 4.4.7 and Annexure M321/L	Pesticides applications record sheet

## **ANNEXURES M321/D TO M321/K – (NOT USED)**

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**ANNEXURE M321/L – PESTICIDES APPLICATION RECORD SHEET**

<b>1. Date and time</b>	Start Date and Time:	
	Finish Date and Time:	
<b>2. Who applied the pesticide</b>	Full operator name:	
	Operator contact address:	
	Operator contact phone:	
<b>3. Who owns/occupies the land</b>	Full owner/occupier's name:	
	Owner/occupier's contact address:	
	Owner/occupier's contact phone:	
<b>4. Boundaries of treated area and order of treatment</b>	List treated areas and order of treatment, preferably with reference to a map:	
	List order of treatment:	
<b>5. Problem treated</b>	Identify the pest or problem treated (eg controlling of spot weed infestation):	
<b>6. Product used</b>	Record either the full name, or a product code if a list of full product names of pesticides you use is kept at the front of your logbook:	
<b>7. Equipment used</b>	Describe the equipment used (eg boom-spray, hand-held backpack sprayer etc.):	
<b>8. Quantity applied and dilution</b>	Total amount of pesticide product mix used:	
	Write down whether the mix was concentrated product or a diluted mixture (note down rate of dilution):	
<b>9. Area covered by application</b>	Area of application (in square metres or hectares):	
<b>10. Wind speed and direction</b>	Estimate of wind speed and direction (only if the pesticide is applied through the air):	
	Write down any changes in weather during application:	
<b>11. Other weather details</b>	Record any weather details such as temperature, humidity and/or rainfall where the pesticide product label requires you to assess these:	

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## **ANNEXURE M321/M – REFERENCED DOCUMENTS AND DEFINITIONS**

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### **M1 REFERENCED DOCUMENTS**

#### **M1.1 Australian Standards**

AS 4373 Pruning of amenity trees

#### **M1.2 TfNSW Documents**

TfNSW G10M Traffic Management (Maintenance Works)

TfNSW G36 Environmental Protection

TfNSW M1 Asset Description and Contract Variables

### **M2 ABBREVIATIONS AND DEFINED TERMS**

Environmental Weeds	Agricultural and horticultural weed species identified as environmental weed by the relevant local government authority.
Landscape Planting Beds	Means TYPE 1 BED, TYPE 2 BED, TYPE 3 BED and TYPE 4 BED, as defined in Annexure M321/A1.
Noxious Weeds	Weed species listed by the relevant local government authority as noxious categories W1, W2, W3, or W4 under the Noxious Weeds Act 1993.
Pruning Type D	Deadwood pruning as described in AS 4373.
Pruning Type G	General pruning as described in AS 4373.
Type 1 Bed	Landscape planting bed for formal planting in mulch/scoria as defined in Annexure M321/A1.
Type 2 bed	Landscape planting bed for bushland planting in mulch as defined in Annexure M321/A1.
Type 3 Bed	Landscape planting bed for trees in grass areas (mown) as defined in Annexure M321/A1.
Type 4 bed	Landscape planting bed for trees in grass areas (unmown) as defined in Annexure M321/A1.

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**LAST PAGE**

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