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**Specification (Measurement)**

**Transport and Main Roads Specifications  
MRS16E Establishment and Monitoring Works**

**April 2012**

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## 1 Introduction

This specification applies to landscape and revegetation establishment and monitoring work operations associated with road construction. This specification shall be read in conjunction with MRTS16 *General Requirements - Landscape and Revegetation Works*.

This specification shall be read in conjunction with MRS01 *Introduction to Specifications* and other specifications as appropriate.

This specification forms part of the Transport and Main Roads Specifications Manual.

## 2 Measurement of work

### 2.1 Standard Work Items

In accordance with the provisions of Clause 2 of MRS01 *Introduction to Specifications*, the Standard Work Items covered by this specification are listed in Table 2.1.

**Table 2.1 – Standard Work Items**

Standard Work Item No.	Landscape and Revegetation Works Description	Unit of Measurement	Clause Reference in MRTS16E
<b>PEST AND DISEASE CONTROL</b>			
3728P	Pest and Disease Control Plan – Provisional Item (if ordered)	lump sum	6
3733P	Mechanical or manual insecticide application [ <i>insecticide type</i> ] – Provisional Item (if required by P&DCP) (if ordered)	lump sum	6
3734P	Mechanical or manual fungicide application [ <i>fungicide type</i> ] – Provisional Item (if required by P&DCP) (if ordered)	lump sum	6
<b>LANDSCAPE AND REVEGETATION WORKS ESTABLISHMENT AND MONITORING</b>			
3795	Landscape and Revegetation Works Establishment Period	m <sup>2</sup>	10
3796	Watering of plant material during Landscape and Revegetation Establishment Period	kilolitre	10
3797	Landscape and Revegetation Works Monitoring Period	lump sum	10
3799P	Watering of plant material during Landscape and Revegetation Works Monitoring Period – Provisional	kilolitre	10

### 2.2 Standard Work Operations

#### 2.2.1 Pest and disease control

##### Item 3728P Pest and Disease Control Plan – Provisional Item (if ordered)

Work operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*, and
- b) preparation of a Pest and Disease Control Plan (P&DCP).

**Item 3733P Mechanical or manual insecticide application – [insecticide type] – Provisional Item (if ordered)**

Work operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) supply of materials, and
- c) the application of insecticides.

**Item 3734P Mechanical or manual fungicide application – [fungicide type] – Provisional Item (if ordered)**

Work operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) supply of materials, and
- c) the application of fungicides.

**2.2.2 Landscape and revegetation works establishment and monitoring**

**Item 3795 Landscape and Revegetation Works Establishment Period**

Work operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) operations to ensure sustainability of installed landscape and revegetation works
- c) weeding operations to maintain a weed free site
- d) mowing, slashing and brushcutting operations of installed treatments
- e) selective removal of non-complying vegetation
- f) monthly monitoring of installations including joint inspections, and
- g) monthly reporting.

**Item 3796 Watering of plant material during Landscape and Revegetation Works Establishment Period**

Work operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) supply of water, and
- c) watering of plant material.

**Item 3797 Landscape and Revegetation Works Monitoring Period**

Work operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) operations to ensure sustainability of installed landscape and revegetation works
- c) weeding operations to maintain a weed free site

- d) supply, installation and re-establishment of failed landscape and revegetation works, including watering
- e) mowing, slashing and brushcutting operations of installed treatments
- f) selective removal of non-complying vegetation
- g) fertilising of site prior to handover
- h) topping up of mulch prior to handover
- i) application and activation of pre-emergent herbicide to all mulched container stock areas
- j) monthly monitoring of installations including joint inspections, and
- k) monthly reporting.

**Item 3799P      Watering of plant material during Landscape and Revegetation Works  
Monitoring Period – Provisional Quantity**

Work operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) supply of water, and
- c) watering of plant material where required.

### **3      Payment**

#### **3.1      Method of payment for landscape and revegetation works establishment**

Provided that the Contractor is fulfilling all obligations in the establishment period, payment for Items 3795 shall be upon receipt and validation by the Administrator, of the Landscape and Revegetation Monthly Inspection Report.

#### **3.2      Method of payment for landscape and revegetation works monitoring**

Provided that the Contractor is fulfilling all obligations in the monitoring period, payment for Item 3797 shall be as follows:

- a) upon receipt and validation by the Administrator, of the Landscape and Revegetation Monthly Inspection Report, and
- b) monthly progress payments shall comprise of one twelfth (1/12<sup>th</sup>) of the tendered lump sum.

#### **3.3      Establishing and monitoring – replacement works**

Provided that the Contractor is fulfilling the obligations in the establishment and monitoring periods, payment for supply, installation and re-establishment of failed landscape and revegetation works shall be made at the originally scheduled rates in MRS16C.

#### **3.4      Replacing installed works due to contractor not fulfilling all obligations**

Where the Contractor is not fulfilling the obligations in the establishment or monitoring periods, no additional payment shall be made for the supply, installation and re-establishment of failed landscape and revegetation works.

**3.5 Replacing installed works damaged by herbicide overspray**

Where landscape works are poisoned due to overspray with herbicides, the Contractor shall reinstall the area as per the MRTS16 specification suite. No additional payment shall be made for this work.

**3.6 Replacing installed works damaged by construction works**

Where landscape works are damaged by construction works, the Contractor shall reinstall the area as per the MRTS16 specification suite. No separate payment shall be made for this work.

**3.7 Selective removal of non-complying vegetation from seeded areas**

No separate payment shall be made for selective removal of non-complying vegetation.

**3.8 Mowing, slashing and brushcutting of installed landscape and revegetation treatments areas**

Slashing and brushcutting operations of installed grass and turf treatments, including cutting of cover crops in seeded areas, is included under Work Operations 3795 and 3797.

**3.9 Payment due to factors outside the control of the contractor**

The Principal will be responsible for payment of the replacement and repair of landscape and revegetation works where damage has occurred due to factors outside the control of the Contractor, such as vehicular runoff, theft and / or vandalism.

It is the responsibility of the Contractor to do all that is reasonably practicable to minimise the risk of theft and / or vandalism of the Landscape and Revegetation Works.

**3.10 Payment for watering during landscape and revegetation monitoring period**

During drought or prolonged periods without rain, additional watering to the allowance of one watering per month, may be requested by the Contractor from the Administrator. All additional watering requests shall be submitted to the Administrator for determination as to its suitability, prior to commencement of watering operations. Payment shall be made at the tendered rate per kilolitre under Work Operation 3799P.

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