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**Specification (Measurement)**

**Transport and Main Roads Specifications  
MRS16D Hardscape Works**

**April 2012**

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## 1 Introduction

This specification applies to landscape and revegetation hardscape work operations associated with road construction.

This specification shall be read in conjunction with MRTS16 *General Requirements - Landscape and Revegetation Works*, 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 MRTS16D
<b>PLANTING BED EDGING</b>			
3744	Timber planting bed edging	m	6
3745	Concrete planting bed edging	m	6
3746	Unit paver planting bed edging	m	6
3747	Rock planting bed edging	m	6
<b>IRRIGATION SYSTEM</b>			
3766	Irrigation system, design	lump sum	7
3767	Irrigation system, supply, installation and commissioning	lump sum	7

### 2.2 Work Operations

#### 2.2.1 Planting bed edging

**Item 3744 Timber planting bed edging**

**Item 3745 Concrete planting bed edging**

**Item 3746 Unit paver planting bed edging**

**Item 3747 Rock planting bed edging**

Work operations incorporated in 3744 – 3747 include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) surface preparation
- c) installation of planting bed edging, and
- d) protection of planting bed edging.

## 2.2.2 Irrigation systems

### Item 3766 Irrigation system, design

Work operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) Design of the irrigation system
- c) submission of Drawings and specifications
- d) certification of the design, and
- e) provision of design warranties.

### Item 3767 Irrigation system, supply, installation and commissioning

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 all materials
- c) installation of all materials
- d) connection to electricity and water supply
- e) testing of the system
- f) balancing of all water outlets and line pressures
- g) setting of timing requirements
- h) proving the operational performance of the system including maintenance until the end of the Monitoring Period
- i) training the nominated Principal's representatives in operation of the system
- j) provision of As Constructed Drawings
- k) provision of an operating manual, and
- l) provision of construction warranties.

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