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Specification (Measurement)

**Transport and Main Roads Specifications
MRS16C Vegetation Works**

April 2012

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1 Introduction

This specification applies to vegetation 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 MRTS16C
SEEDING			
3756	Organics blanket [<i>native seed mix grass seed mix</i>]	m ²	6
3772	Hydromulching - single pass [<i>grass seed mix</i>]	m ²	6
3773	Hydromulching - double pass [<i>native seed mix</i>]	m ²	6
3774	Straw mulching [<i>native seed mix grass seed mix</i>]	m ²	6
3775	Drill seeding [<i>native seed mix grass seed mix</i>]	m ²	6
3777	Manual broadcast [<i>grass seed mix</i>]	m ²	6
TURFING			
3782	Turf [<i>type</i>]	m ²	7
3783	Reinforced Turf [<i>type</i>]	m ²	7
PLANTING OF CONTAINER AND EXGROUND STOCK			
3787	Planting [<i>viro-tube full native tube stock (50 x 50 x 120 mm) 90 mm container 140 mm container 300 mm container 25 litre container 45 litre container 100 litre container 200 litre container</i>]	container	8
3788	Planting ex-ground stock [<i>container size</i>]	container	8
3789	Harvesting and planting of site plant material [<i>plant unit container size</i>]	each	8
3791	Potting on	container	8

2.2 Work Operations

2.2.1 Seeding

Item 3756 Organics blanket

Work Operations in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) pre-treatment of seed where specified in the SSP
- c) inoculation of seed where specified in the SSP
- d) insecticidal treatment of seed where specified in the SSP
- e) the supply, incorporation and mixing of materials
- f) the watering of any prepared surface prior to application of seeding materials; and
- g) application of the materials.

Item 3772 Hydromulching or hydroseeding single pass [*grass seed mix*]

Work Operations in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) pre-treatment of seed where specified in the SSP
- c) inoculation of seed where specified in the SSP
- d) insecticidal treatment of seed where specified in the SSP
- e) the supply, incorporation and mixing of materials
- f) the watering of any prepared surface prior to application of seeding materials; and
- g) application of the materials.

Item 3773 Hydromulching – double pass [*native seed mix*]

Work Operations in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) pre-treatment of seed where specified in the SSP
- c) inoculation of seed where specified in the SSP
- d) insecticidal treatment of seed where specified in the SSP
- e) the supply, incorporation and mixing of materials
- f) the watering of any prepared surface prior to application of seeding materials; and
- g) application of the materials.

Item 3774 Straw mulching [*native seed mix* | *grass seed mix*]

Work Operations in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) pre-treatment of seed where specified in the SSP
- c) inoculation of seed where specified in the SSP
- d) insecticidal treatment of seed where specified in the SSP
- e) the supply, incorporation and mixing of materials
- f) the watering of any prepared surface prior to application of seeding materials; and

- g) application of the materials.

Item 3775 Drill seeding [*native seed mix / grass seed mix*]

Work Operations in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) pre-treatment of seed where specified in the SSP
- c) inoculation of seed where specified in the SSP
- d) insecticidal treatment of seed where specified in the SSP
- e) the supply, incorporation and mixing of materials
- f) application of the materials, and
- g) the covering of seed with planting media.

Item 3777 Manual broadcast [*grass seed mix*]

Work Operations in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) pre-treatment of seed where specified in the SSP
- c) inoculation of seed where specified in the SSP
- d) insecticidal treatment of seed where specified in the SSP
- e) the supply, incorporation and mixing of materials
- f) application of the materials, and
- g) the covering of seed with planting media.

2.2.2 Turfing

Item 3782 Turf [*type*]

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
- c) application of fertiliser, and
- d) installation of turf.

Item 3783 Reinforced Turf [*type*]

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
- c) application of fertiliser
- d) installation of turf, and
- e) the pinning of turf.

2.2.3 Planting of container and exground stock

Item 3787 **Planting [*viro-tube* | *full native tube stock (50 x 50 x 120 mm)* | *90 mm container* | *140 mm container* | *300 mm container* | *25 litre container* | *45 litre container* | *100 litre container* | *200 litre container*].**

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) coordination with plant supply nursery
- d) preparation of a plant supply proposal including inspections and documentation as per NATSPEC Guide: Specifying Trees Appendix 2 (*45 litre container* | *100 litre container* | *200 litre container*)
- e) installation of sub-soil drain (where shown on the drawings)
- f) installation of plants
- g) fertiliser application
- h) staking and tying (where shown on the drawings)
- i) marker staking (where shown on the drawings), and
- j) guying plants (where shown on the drawings).

Item 3788 **Planting ex-ground stock [*container size*]**

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) coordination with plant supply nursery
- d) preparation of a plant supply proposal including inspections and documentation as per NATSPEC Guide: Specifying Trees Appendix 2
- e) installation of sub-soil drain (where shown on the drawings)
- f) installation of plants
- g) fertiliser application
- h) staking and tying (where shown on the drawings)
- i) marker staking (where shown on the drawings), and
- j) guying plants (where shown on the drawings).

Item 3789 **Harvesting and planting of site plant material [*plant unit*]**

Work operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) harvesting of site plant material
- c) containerising, storing and maintenance of plant stock until planting (where required), and

- d) planting of site harvested plant material
- e) fertiliser application
- f) staking and tying (where shown on the drawings)
- g) marker staking (where shown on the drawings), and
- h) guying plants (where shown on the drawings).

Item 3791 Potting on

Work operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) potting on container stock, and
- c) storing and maintenance of plant stock until planting
- d) supply of materials
- e) installation of plants, and
- f) fertiliser application.

3 Payment

3.1 Seeding supply proposal

No separate payment shall be made for the preparation of the Seeding Supply Proposal. Payment is included in the relevant seeding work item. Refer to Clause 6 of MRTS16C *Vegetation Works*.

3.2 Seeding – method of payment

Payments for seeding work items shall be made progressively as areas to be seeded are completed. Payment shall be made at the tendered rate per square metre.

3.3 Plant supply proposal

No separate payment shall be made for the preparation of the Plant Supply Proposal. Payment is included in the relevant planting work item. Refer to Clause 8 of MRTS16C *Vegetation Works*.

3.4 Potting On

Additional payment shall be made for the potting on process only.

Payment for planting shall be made at the container size originally specified.

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