



# 8301 Landscape Furniture

REVISION 13/03/2024

## 8301.1 Introduction

This Supplementary Specification refers to the supply and installation of landscape furniture.

(This specification does not include excavation and construction of footings and/or slabs associated with the respective furniture shown on the design drawings, refer to MRC Supplementary Specification 8320 & 8320\_1).

### 8301.1.1 Definitions of Terms

This section describes any term which are specific to this specification or requires clarification due to an ambiguous understanding.

Term	Definition as Applies to this Specification
landscape furniture	tables, benches, bubblers, showers, flag poles, bollards, bbq's, bins, bike racks, signage,
playground equipment	any equipment within a designated playground area with soft fall treatment
building and retaining structures	treated as requiring building permits (shelters, retaining walls, bridges, beach stairs)
landscape features	water features, statues, lighting, fencing, pathways
sporting facilities	cricket pitches, goal posts, courts, skate park, exercise equipment

## 8301.2 Referenced Documents

This supplementary specification shall be read in conjunction with the following:

- MRS01 *“Introduction to Specifications”*;
- MRTS01 *“Introduction to Technical Specifications”*;
- Mackay Regional Council *“List of Furniture and Materials”*;
- Mackay Regional Council *“Landscape Performance, Procedures and Style Guidelines”*;
- MRC Supplementary Specification 8320 & 8320.1
- MRC Supplementary Specification 8604, 8800
- CTM Water Alliance Design and Construction Code
- MRC Std Drawings appropriate to the furniture or feature being installed
- MRC Std Drawing A3-09695 Picnic Setting with Rubbish Bin and Electric BBQ on Concrete Slab
- Manufacturers drawings and specification where MRC Std Drawings are not referenced, and
- the project Drawings

## 8301.3 Description of Works



Work items incorporated by this supplementary specification are identified in Section 8301.6 and 8301.7 with individual activities/tasks for measurement and payment sourced from the Bill of Quantities and listed in MRC Supplementary Specification Annexure 8301\_1 Section 1:

## 8301.4 Quality System Requirements

### 8301.4.1 Std test Methods (Testing Regime)

The following minimum testing regime applies to this specification:

Unless otherwise stated the manufacturer certification of the landscape furniture shall form the basis of the requirements, including Form 15 as required.

Civil works activities associated with the subgrade/floor of excavation, concrete pours, drainage installation, subbase and base courses shall be tested as per the relevant MRTS specification MRTS03, MRTS04, MRTS05, and MRTS70 unless otherwise approved by the Superintendent.

Where the landscape furniture requires electrical and water reticulation connections these are to be tested and commissioned as per MRC Supplementary Specification 8604 and CTM Water Alliance Design and Construction Code.

### 8301.4.2 Hold Points, Witness Points and Milestones

The following table represents the minimum inspection requirements for this specification.

Activity	Inspection Type	When
Works Procedure and other submissions as required by Clause 8301.5	Milestone	4 Weeks prior to works commencing
Inspection of delivered items	Hold Point	At delivery time for each item.
Final location of shelter and site works extents	Hold Point	During site survey layout.
Excavation of material	Witness Point	At completion of excavation
Bed/Subgrade Excavation Floor	Hold Point	At completion of excavation and compacting
Formwork and reinforcing prepour Inspection	Hold point	Prior to concrete pour proceeding
Approval to strip formwork	Hold Point	After 70% strength gain of concrete
Approval to backfill to slab	Hold Point	7 days after stripping and prior to installation of base course against kerb
Installation of furniture	Witness Point	After all other site works are completed and prior to clean up and turfing disturbed areas
Practical Completion Inspection	Hold point	After submission of As Cons and QA data has been reviewed and approved
Works as Executed documentation	Hold Point	4 weeks prior to practical completion being requested.

### 8301.4.3 Construction Tolerances

Unless otherwise approved by the Superintendent the following construction tolerances shall apply to this Specification;

- Earthworks tolerances in accordance with MRTS04 Earthworks General



- Pavement tolerances in accordance with MRTS05 Unbound Pavements

Tolerances specific to the project are detailed on the design drawings and are included in Clause 2 of MRC Supplementary Specification Annexure 8301\_1.

## **8301.5 Preliminary**

The Contractor is to submit the following documentation 4 weeks prior to commencing work or a prestart is conducted. **(MILESTONE)**:

- Works procedure
- Erosion and Sediment Plan (as required for site/s)

Other requirements unique to the project will be listed in the MRC Supplementary Specification Annexure 8301\_1 **(MILESTONE)**

### **8301.5.1 Materials**

Landscape furniture must be supplied from Council's preferred supplier and comply with Council's requirements unless otherwise approved by the Superintendent.

Supply of materials to site is the responsibility of the Contractor at their cost, where items are Principal supplied the nominated storage site shall be obtained from MRC Supplementary Specification 8301\_1 Section 3 and shall be the point of supply.

Where existing furniture is to be salvaged unless otherwise instructed by the Superintendent MRC Supplementary Specification 8301\_1 Section 4 will detail the items to be salvaged and the nominated storage site. This will also include any reuse of existing items.

All civil items and materials shall be supplied in accordance with their relevant MRTS Specification.

## **8301.6 Construction**

This section lays out the works operations with more detail based on specific requirements of this supplementary specification. Some activities may appear to include items which are stated within other specifications, the purpose is to reinforce that requirement specific to this supplementary specification.

### **8301.6.1 Work Operations**

Work operations incorporated in this item will include:

- a) **Work operations included in Clause 2.1.5 of MRS01 "Introduction to Standard Specifications"**
- b) **Supplying of all materials**

All materials, plant, and labour required to carry out the works under this Specification is to be supplied by the Contractor, where the furniture is Principal supplied the designated storage site will be the point of supply for the purposes of this Specification.

All items shall be inspected at delivery to site prior to use. Any items which are damaged are not to be used and are to be returned to the supplier. **(HOLD POINT)**

- c) **Site layout with Superintendent**

The final location of the footing (including slab as required) is to be marked out on site and shall be inspected and approved by the Superintendent prior to excavation commencing. **(HOLD**



**POINT)**

**d) Demolition and salvage of Furniture (As required)**

Existing landscape furniture to be salvaged as identified on the design drawings or as directed by the Superintendent. Refer to MRC Supplementary Specification Annexure 8301\_1 Landscape Furniture for furniture to be salvaged and storage site location.

Disposal of any demolished landscape furniture not identified as requiring storage shall be disposed of by the contractor at their cost to the nearest MRC waste disposal transfer station.

**e) Carrying out excavations (as required)**

Singular unreinforced footing profile shall be included as part of the scope of works covered by this Supplementary Specification.

Furniture footings requiring reinforced concrete (with multiple footings and slab) to be treated as per the requirements of MRC Supplementary Specification 8320.

All earthworks and bedding/base works associated with the footings and slab (where applicable) of the landscape furniture shall be carried out in accordance with MRTS03, MRTS04, MRTS05, MRC standard drawings, and the design drawings with inspections, geotechnical testing and geometric requirements applying unless otherwise in MRC 8501\_1 Landscape Furniture Annexure. **(HOLD POINT)**.

Excavation of material to level and grade as per design plans, vertical tolerances shall not exceed +5mm/-10mm, and be free of loose material on the floor of the excavation

Bed/Subgrade is to be inspected for areas of unsuitable material **(HOLD POINT)**

If unsuitable material is identified this is to be removed and replaced with approved material as per the instructions of the Superintendent.

Where required by the superintendent a proof roll shall be carried out prior to commencement of installation of footings and associated formwork and reinforcing steel. **(HOLD POINT)**

**f) Utilising or disposing of excavated material;**

Excess excavated materials shall be disposed of or utilised as per Superintendents instructions. Material stockpiled shall ensure that all Environmental ESC measures are in place and maintained

**g) Installation of footings/foundations, as required;**

All concrete works associated with the footings and slab (where applicable) of the landscape furniture shall be carried out in accordance with MRTS70, MRC standard drawings, and the design drawings with inspections, geotechnical testing and geometric requirements applying unless otherwise stated in MRC 8301\_1 Landscape Furniture Annexure. **(HOLD POINT)**.

**h) Carrying out of installation of all landscape furniture items as specified on the project Drawings,**

Installation of the landscape furniture shall be carried out in accordance with MRC Std Drawings and project drawings, in the absence of details on the project drawings the Manufacturers drawings, specification and requirements shall apply. **(WITNESS POINT)**

**i) Clean up and backfilling against slab;**

Site is to be cleaned of all debris, excavated material, and construction materials



Items which close out the project, and readies the project for Practical Completion inspection

a) **Collection and submission of all As Constructed data including QA data requirements.**

Contractor is to supply and submit Works as Executed documentation as required by *MRC D20 - Drawings and Documentation* for approval by the Superintendent 4 weeks prior to requesting a practical completion inspection.

Certification of works including Form 16, as required shall be submitted with the “Works as Executed” Plans and documentation.

Where applicable Certification of Electrical, Water, Drainage works shall be submitted with the “As-Constructed” Plans and documentation.

Format of submitted “As Constructed” documentation shall be compliant with MRC Supplementary Specification 8919.

### **8301.8 Measurement and Payment**

Provision for these works shall be included in the scheduled unit rate for the items show in Clause 8301.3 of this Supplementary Specification and Annexure. No separate payment will be made for the works specified in this Supplementary Specification.

Version Control:

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1.0	Original issue	R.Mogg	05.08.2014
2.0	Review of Specification	C. Sultana	13.03.2024