Specification (Measurement)

Transport and Main Roads Specifications MRS86 Widening, Strengthening and Rehabilitation of Bridges

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Contents

1	Introduction	
2	Measurement of work	1
2.1	Standard Work Items	1
22	Work Operations	1

1 Introduction

This Specification applies to the operations required to be carried out in preparation for the widening, strengthening and rehabilitation of a bridge.

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 2.1.3 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 Item No.	Description	Unit of Measurement		
Preparation for Bridge Widening, Strengthening and Rehabilitation				
73401	Removal of existing bridge rails and posts	lump sum		
73402	Breaking back existing concrete	m³		
73403	Removal of existing rubble masonry at abutments	lump sum		
73404	Installation of steel reinforcing bars in existing concrete	each		
73405	Installation of dowel bars	each		
73406	Scabbling concrete faces	m²		
73407	Temporary barrier guardrail	lump sum		

2.2 Work Operations

Item 73401 Removal of existing bridge rails and posts

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 Introduction to Specifications
- b) removal of rails
- c) demolition and disposal of posts, and
- d) transport and storage of rails.

Item 73402 Breaking back existing concrete

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 Introduction to Specifications
- b) demolition of existing concrete
- c) disposal of demolished concrete, and
- d) cutting of steel reinforcing and protecting cut ends, where applicable.

Item 73403 Removal of existing rubble masonry at abutments

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 Introduction to Specifications
- b) demolition of existing rubble masonry, and
- c) disposal of demolished materials.

Item 73404 Installation of steel reinforcing bars in existing concrete

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 Introduction to Specifications
- b) coring of holes in existing concrete
- c) supply of chemical fastener products, and
- d) installation of steel reinforcing bars.

Item 73405 Installation of dowel bars

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 dowel bars, and
- c) installation of dowel bars.

Item 73406 Scabbling concrete faces

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 Introduction to Specifications
- b) scabbling of existing concrete
- c) cleaning of scabbled face, and
- d) supply, prepare and apply bonding agent, where applicable.

Item 73407 Temporary barrier guardrail

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) fabrication of steel components
- d) coring of holes for chemical fasteners
- e) installation of chemical fasteners
- f) erection of barrier
- g) dismantling on completion, and
- h) cutting off anchor bolts.