

# CAPRICORN MUNICIPAL DEVELOPMENT MANUAL

## CYCLEWAY AND PATHWAY DESIGN

D9

### DESIGN GUIDELINE

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### **Keeping the Capricorn Municipal Development Guidelines up-to-date**

The Capricorn Municipal Development Guidelines are living documents which reflect progress of municipal works in the Capricorn Region. To maintain a high level of currency that reflects the current municipal environment, all guidelines are periodically reviewed with new editions published and the possibility of some editions to be removed. Between the publishing of these editions, amendments may be issued. It is important that readers assure themselves they are using the current guideline, which should include any amendments which may have been published since the guideline was printed. A guideline will be deemed current at the date of development approval for construction works.

## GENERAL

### D9.01 SCOPE

1. This Guideline sets out requirements to be used in the design of various types of cycleways and pathways.
2. All relevant design principles contained in the AUSTROADS Guide referenced below must be integrated in the design of cycleways and associated infrastructure. This specification serves as a companion document to the AUSTROADS Guide extended to incorporate basic requirements for pathways and specific Local Authority requirements.

**AUSTROADS**

### D9.02 OBJECTIVES

1. This Guideline aims to set the minimum design requirements relating to the provision of cycleways and pathways. Cycleways and pathways are to be safe and convenient and shall maintain a satisfactory level of service for all pathway users.

**Safety**

**Level of Service**

### D9.03 REFERENCE AND SOURCE DOCUMENTS

#### (a) Council Specifications

D1 - Geometric Road Design

#### (b) Australian Standards

AS 1742 - Manual of uniform traffic control devices.  
 AS 2890.3 - Bicycle parking facilities  
 AS 1428 - Design for access and mobility – General requirements for access (2001)

#### (c) Other

The Institute of Municipal Engineering Australia, QLD Division - 1995  
 - Design Guidelines for Subdivisional Streetworks - "Queensland Streets".  
 AUSTROADS - Guide To Road Design – Part 6A: Pedestrian and Cyclist Paths  
 - Planning and Designing for Bicycles - NAASRA (now AUSTROADS) Technical Report June 1988.  
 Ministry of Transport, Victoria - State Bicycle Committee  
 - Planning and Design of Bicycle Facilities,

### D9.04 CONSULTATION

1. The Designer is encouraged to consult with Local Government, and relevant authorities prior to and during the preparation of cycleway and pathway design. Designers should in addition to the requirements of this guideline ascertain specific requirements of these authorities as they relate to the designs in hand.

**Landscape Designers  
 Public Authorities**

**D9.05 MINIMUM DESIGN STANDARDS**

1. The minimum design standards for Cycleways and Pathways shall be as nominated in Table D9.05.1.

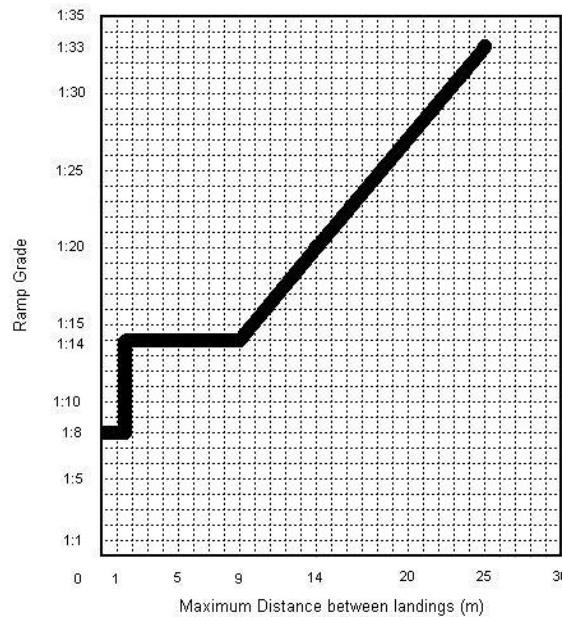
*Design Grades*

**Table D9.05.1 Minimum Design Standards**

	Cycleway	Pathway	Dual Use Pathway
Path Width	2.0m	1.2m	2.5m
Formation Width	3.0m	2.2m	3.5m
Crossfall (maximum)	1:40	1:40	1:40
Clearance Horiz.	Refer to Austroads Guide To Road Design , Guide to Traffic Management and Guide to Road Safety		
Grade max.	2% for 450m 5% for 90m 10% for 30m	1 in 33 for 25m 1 in 20 for 15m	2% for 450m 5% for 90m 10% for 30m

A 1.2m wide landing shall be provided on all pathways where the grade exceeds 3%. The Maximum Ramp length between landings shall be in accordance with Figure D9.05.1.

**Figure D9.05.1 Maximum Ramp length between landings**



All Cycleway's and Pathways shall be constructed in accordance with Standard Drawing CMDG-R-051 where possible.

**D9.06 SURFACE FINISH REQUIREMENTS**

- 1 All cycleway and pathways shall have a non-slip surface, generally this can be achieved by applying a stiff broom to the wet surface. (Alternate methods shall require Local Government approval).
- 2 A construction tolerance of up to 5mm is acceptable using rounded or bevelled edges as per AS 1428.1

*Surface Treatment*