



## STANDARD ROAD CROSS SECTIONS

**POLICY**

# STANDARD ROAD CROSS SECTIONS

April 2015  
Version 1.0

**Owner:** Department of Transport

**Manager:** Transport Infrastructure Planning Division

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## **BACKGROUND**

This policy ensures consistency is applied to the construction/upgrading of Territory roads with respect to seal and pavement widths.

Where existing roads are being upgraded or new roads constructed they shall be constructed in accordance with this policy.

## **STANDARDS**

The tables/sketches in Appendices A and B have been developed to set out the recommended standard for the construction/upgrading of Northern Territory Government controlled roads.

## **URBAN ROADS**

Appendix A provides widths for the final stage of urban arterial roads. These guidelines are not intended to provide direction on what the final configuration of a road in the urban environment should be constructed to. This decision can only be made by considering all factors associated with the particular road. That is, based on current traffic volumes, future traffic volumes, traffic mix and future connections. Based on these factors, interim stages such as two-lane, two-way or two-lane, duplication may be required prior to construction of the ultimate configuration.

## **RURAL ROADS**

Appendix B provides minimum seal and carriageway widths for various classifications of rural roads.

Varying standards are shown for several of the road classifications and the adopted standard will be recommended taking into account of, but not restricted to, the following issues:

- Topography
- Traffic volume and classification
- Predicted growth rates
- Current and future land use
- Economic assessments
- Staging options
- Environmental considerations
- Geotechnical/Materials considerations
- Safety

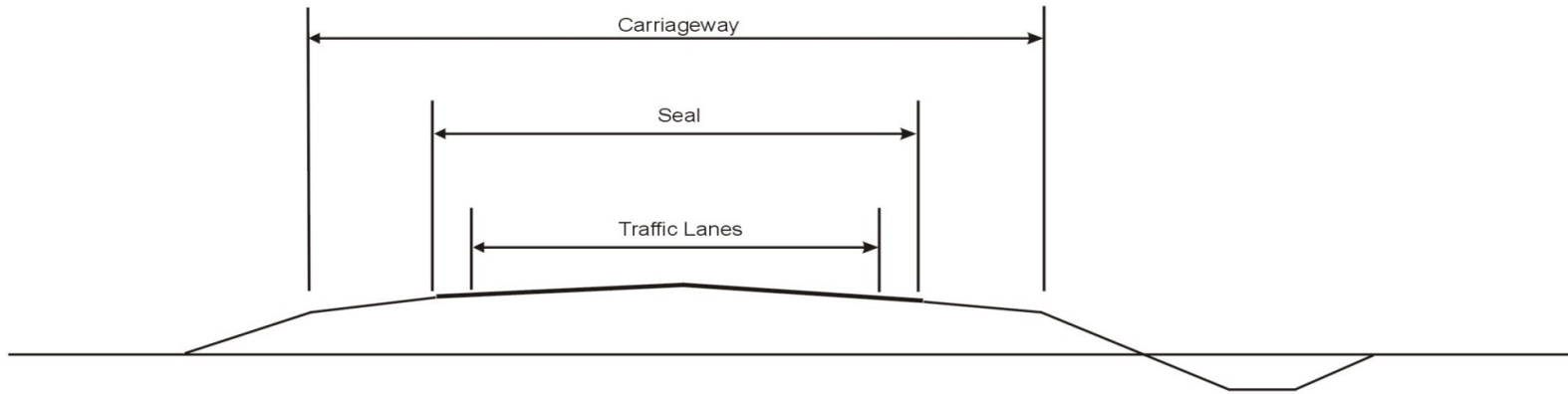
## STANDARD CROSS SECTIONS

<b>APPENDIX A</b>						
<b>TYPICAL CROSS SECTIONS – URBAN ENVIRONMENT</b>						
Road Classification	Carriageway width (m) (including median)	Traffic Lanes		Seal Width (m)	Typical Cross Section Reference	COMMENTS
		Width (m)	Surface			
<b>URBAN – PRIMARY ARTERIALS:</b>						
Urban	28.0	Up to 3x3.5	Sealed	Up to 10.5 each way	A1	Kerb side lane to be minimum 5.0m wide during stage construction. Total road reserve width 40m.
Semi – Urban	33.0	Up to 3x3.5 each way	Sealed	Up to 13.0 each way (Inc. full width shoulder seal)	A2	Shoulders to be sealed minimum 1.0m. Total road reserve width 60 – 80m to allow for side drains and possible services.
Rural	41.0	Up to 3x3.5 each way	Sealed	Up to 14.0 each way (Inc. full width Shoulder seal)	A3	Shoulder to be sealed minimum of 1.0m. Pavement & seal to extend a minimum of 1.0m in to the median. Total road reserve width greater than 80m.
URBAN - SUB ARTERIALS	13.0 - 28	Refer Local Government Guidelines			6000 – 12000 vpd	
URBAN - DISTRIBUTOR		Refer Local Government Guidelines			Less than 6000 vpd	
URBAN - COLLECTOR		Refer Local Government Guidelines			Less than 3000 vpd	
URBAN - LOCAL		Refer Local Government Guidelines				
URBAN - SUBDIVISIONS		Refer to Development Guidelines			Produced by Transport Infrastructure Planning Division	

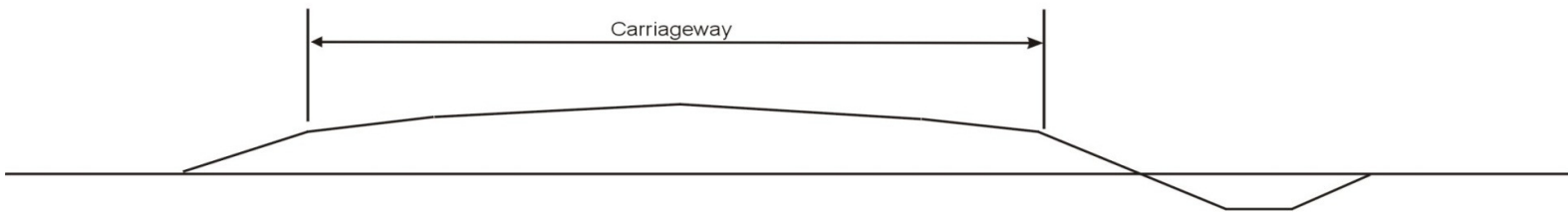
<b>APPENDIX B TYPICAL CROSS SECTIONS – RURAL ENVIRONMENT</b>						
Road Classification	Carriageway width (m)	Traffic Lanes		Seal/Gravel Width (m)	Typical Cross Section Reference	COMMENTS
		Width (m)	Surface			
RURAL – NATIONAL HIGHWAY	11.0	2x3.5	Sealed	8.0	B	National Standards under review. Seal width may be increased to 9.0m depending on local issues.
RURAL ARTERIAL AND SECONDARY ROADS	10.0	2x3.5	Sealed	8.0	B	> 1000 vpd - 20 year projected volumes, see Note 1
	9.0	2x3.0	Sealed	7.0	B	<500 vpd – 20 year projected volumes, see Note 1
	9.0	2x3.0	Gravelled	6.0	C	See Note 2
RURAL – LOCAL	9.0	2x3.0	Sealed	7.0	B	For unsealed roads a 9.0m carriageway may be appropriate if future sealing is foreseeable. See Note 2.
	8.0	2x3.0	Gravelled	6.0	C	
RURAL – SUBDIVISIONS						Refer to Development Guidelines by the Transport Infrastructure Planning Division.
PASTORAL ACCESS ROADS						
Pastoral 1	4.0	1x4.0	Formed	N/A	C	Single User Access
Pastoral 2	6.0	1x6.0	Formed	N/A	C	Multi User Access for up to 3 properties
Pastoral 3	8.0	2x3.0	Gravelled	6.0	C	Provides Access to greater than 3 properties,

**NOTES:**

- For predicted future traffic volumes of 500 – 1000 vpd the standard will depend on traffic mix (numbers of road trains/caravans/buses) and topography and will be assessed on a case by case basis. Seal widths may also be increased depending on local issues such as seasonal variations (tourism) and environment.
- The decision in regard to sealed versus gravel standard for a particular road will depend on factors such as proposed use (i.e Horticultural), environment, predicted use and the like and should be referred to Transport Infrastructure Planning Division.



**B - SEALED CROSS SECTION**



**C - UNSEALED CROSS SECTION**

NOTE: Not To Scale

**ALL ROADS - RURAL ENVIRONMENT  
TYPICAL CROSS SECTIONS**