

4.4 Desired standards of service

- (1) The desired standard of service details the standards that comprise an infrastructure network most suitable for the local context.
- (2) The desired standard of service is supported by the more detailed network design standards included in planning scheme policies, legislation, statutory guidelines and other relevant controlled documents about design standards identified below.

4.4.1 Water supply

Table 4. 7 Desired standards of service - water supply

ITEM	OBJECTIVE	DESIRABLE STANDARD
Day To Day Continuity Of Supply	To provide continuous and reliable delivery of water to all customers.	Provided in:- <ul style="list-style-type: none"> ▪ Strategic Asset Management Plan ▪ Customer Service Standards ▪ Operational Plan
Quality Of Normal Supply	To provide water that complies with National Health and Medical Research Council Guidelines for quality.	Provided in:- <ul style="list-style-type: none"> ▪ Strategic Asset Management Plan ▪ Customer Service Standards ▪ Operational Plan
Adequacy of Normal Supply	To provide supply at a minimum pressure and minimum flow at the service point.	Provided in:- <ul style="list-style-type: none"> ▪ Strategic Asset Management Plan ▪ Customer Service Standards ▪ Operational Plan
Continuity In The Long Term	To provide well managed infrastructure that minimises losses and wastage. To capture a source of water which provides adequate quantities of water to all customers.	Provided in:- <ul style="list-style-type: none"> ▪ Strategic Asset Management Plan ▪ Customer Service Standards ▪ Operational Plan

General Comments

The DSS has been aligned with GRC design requirements, Operational Plan, Customer Service Standards, Strategic Asset Management Plan, Integrated Environmental Management System, licences, statutory requirements and industry standards.

4.4.2 Sewerage

Table 4. 8 Desired standards of service - sewerage

ITEM	OBJECTIVE	DESIRABLE STANDARD
Effective Transportation Of Sewage	To provide a continuous and reliable sewerage service that ensures public health and environmental protection.	Provided in:- <ul style="list-style-type: none"> ▪ Strategic Asset Management Plan ▪ Customer Service Standards ▪ Operational Plan
Continuity In The Long Term	To provide well managed infrastructure that minimises losses and wastage.	Provided in:- <ul style="list-style-type: none"> ▪ Strategic Asset Management Plan ▪ Customer Service Standards ▪ Operational Plan
Environmental Impact	To provide a treatment system that minimises environmental impact	Provided in:- <ul style="list-style-type: none"> ▪ Strategic Asset Management Plan ▪ Customer Service Standards ▪ Operational Plan

General Comments

The DSS has been aligned with GRC design requirements, customer service standards, Strategic Asset Management Plan, Integrated Environmental Management System, licences, statutory requirements and industry standards.

4.4.3 Stormwater

Table 4. 9 Desired standards of service - stormwater

ITEM	OBJECTIVE	DESIRABLE STANDARD
Runoff flows	To minimise urban flooding impacts and maintain natural flows in natural water courses.	Provided in:- <ul style="list-style-type: none"> ▪ Queensland Urban Drainage Manual ▪ Cooloolo Shire Council Planning Scheme Policy 8, Infrastructure Works
Runoff quality	The quality of water discharged from urban catchments has minimal environmental impact.	Provided in:- <ul style="list-style-type: none"> ▪ Section 42 Environmental Protection [Water] Policy 1997 ▪ Queensland Water Quality Guidelines 2006 ▪ Mary River Environmental Values and Water Quality Objectives ▪ State Planning Policy 4/10 Healthy Waters

General Comments

The DSS has been aligned with GRC design requirements, Integrated Environmental Management System, statutory requirements and industry standards.

4.4.4 Transport

Table 4. 10 Desired standards of service - transport, roads

ITEM	OBJECTIVE	DESIRABLE STANDARD																																																
Roads	<p>To provide a functional urban and rural road network hierarchy that supports settlement patterns, commercial, tourism and economic activities, and freight movement.</p> <p>To provide a general Level of Service B*.</p> <p>* Defined in Guide to Traffic Management Part 3 – Austroads 2009.</p>	<table border="1"> <thead> <tr> <th>Street / Road Type</th> <th>Max Roughness IRI</th> <th>Min LOS peak period</th> </tr> </thead> <tbody> <tr><td>Rural Arterial</td><td>5</td><td>C</td></tr> <tr><td>Rural Sub-Arterial</td><td>7</td><td>C</td></tr> <tr><td>Rural Distributor</td><td>9</td><td>C</td></tr> <tr><td>Rural Collector Bus Route</td><td>11</td><td>C</td></tr> <tr><td>Rural Collector</td><td>11</td><td>C</td></tr> <tr><td>Rural Local</td><td>15</td><td>C</td></tr> <tr><td>Urban Arterial</td><td>5</td><td>C</td></tr> <tr><td>Urban Sub-Arterial</td><td>5</td><td>C</td></tr> <tr><td>Urban Distributor A</td><td>7</td><td>C</td></tr> <tr><td>Urban Collector</td><td>9</td><td>C</td></tr> <tr><td>Urban Local</td><td>13</td><td>C</td></tr> <tr><td>Industrial Collector</td><td>9</td><td>C</td></tr> <tr><td>Industrial Local</td><td>13</td><td>C</td></tr> </tbody> </table> <table> <thead> <tr> <th>Intersection Degree of Saturation</th> <th>Min LOS peak period</th> </tr> </thead> <tbody> <tr> <td>Signals / Roundabout $0.75 < x \leq 0.9$</td> <td>C</td> </tr> <tr> <td>Priority Control $0.70 < x \leq 0.8$</td> <td>C</td> </tr> </tbody> </table>	Street / Road Type	Max Roughness IRI	Min LOS peak period	Rural Arterial	5	C	Rural Sub-Arterial	7	C	Rural Distributor	9	C	Rural Collector Bus Route	11	C	Rural Collector	11	C	Rural Local	15	C	Urban Arterial	5	C	Urban Sub-Arterial	5	C	Urban Distributor A	7	C	Urban Collector	9	C	Urban Local	13	C	Industrial Collector	9	C	Industrial Local	13	C	Intersection Degree of Saturation	Min LOS peak period	Signals / Roundabout $0.75 < x \leq 0.9$	C	Priority Control $0.70 < x \leq 0.8$	C
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	User safety will comply with accepted codes and standards.	Design standards provided in:- <ul style="list-style-type: none"> ▪ Planning Scheme Policy 1: Development Standards ▪ Gympie Regional Council Standard Drawings 																																																

General Comments

The DSS has been aligned with GRC design requirements, statutory requirements and industry standards.

Table 4. 11 Desired standards of service - transport, footpaths and cycleways

ITEM	OBJECTIVE	DESIRABLE STANDARD
Network Strategy	To provide a safe, attractive and convenient network, integrated with the natural & built environment. To encourage walking & cycling as a commuting & recreational activity.	<ul style="list-style-type: none"> ▪ Complete pathway links ▪ Access from residential areas to major destinations & between major destinations ▪ Off-road facilities where feasible ▪ On-road facilities where safe Also provided in:- <ul style="list-style-type: none"> ▪ Cooloolo Shire Bicycle & Pedestrian Plan, Final Report – GHD, May 2003
Network Standard	To provide a safe & attractive network.	Provided in:- <ul style="list-style-type: none"> ▪ Guide to Traffic Management – Austroads, 2009 ▪ Guide to Road Design – Austroads, 2009 ▪ Cooloolo Shire Bicycle & pedestrian Plan, Final Report – GHD, May 2003 ▪ Cooloolo Shire Council Planning Scheme Policy 8, Infrastructure Works ▪ Cooloolo Shire Council Standard Drawings

General Comments

The DSS has been aligned with GRC design requirements, Integrated Environmental Management System, statutory requirements and industry standards.

Table 4. 12 Desired standards of service - transport, public transport

ITEM	OBJECTIVE	DESIRABLE STANDARD												
Network Strategy	To provide for a clear and attractive alternative to private vehicle use for intra- and inter-urban travel.	Provided in:- <ul style="list-style-type: none"> ▪ Moving People Connecting Communities: A Passenger Transport Strategy for Queensland 2007 – 2017 ▪ Wide Bay Integrated Transport Plan 2002 – 2020 ▪ Integrated Transport Planning Framework for Queensland 2003 												
Network Standard	To provide for a safe & attractive network accessible to all users.	Guidelines:- <ul style="list-style-type: none"> ▪ Disability Standards for Accessible Public Transport Guidelines 2004 ▪ Public Transport Infrastructure Manual 2007 Bus Stop Standards <table style="margin-left: 20px;"> <tr> <td>Type</td> <td>Embellishments</td> </tr> <tr> <td>A</td> <td>Large seating & shelter, off-road bus bays, integrated with car parking and other facilities</td> </tr> <tr> <td>B</td> <td>C plus multiple shelters</td> </tr> <tr> <td>C</td> <td>D plus 1 shelter</td> </tr> <tr> <td>D</td> <td>E plus seat</td> </tr> <tr> <td>E</td> <td>Concrete hardstand & J pole</td> </tr> </table>	Type	Embellishments	A	Large seating & shelter, off-road bus bays, integrated with car parking and other facilities	B	C plus multiple shelters	C	D plus 1 shelter	D	E plus seat	E	Concrete hardstand & J pole
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General Comments

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4.4.5 Public parks and land for community facilities

Table 4. 13 Desired standards of service - public parks & community facilities land - Planning & Design

Measure	Planning criteria (qualitative standards)	Design criteria (quantitative standards)
Functional network	A network of parks and community facilities land is established to provide for the full range of recreational and sporting activities and pursuits.	<i>Parks and community land is provided at a local, district and LGA-wide level. Parks and community facilities land addresses the needs of both recreation and sport.</i>
Accessibility	Public parks will be located to ensure adequate pedestrian, cycle and vehicle access.	<i>Accessibility standards are identified in Table 4.15.</i>
Land quality / suitability Area / 1000 persons Minimum size Maximum grade Flood immunity	Public parks will be provided to a standard that supports a diverse range of recreational, sporting and health-promoting activities to meet community expectations. This includes ensuring land is of an appropriate size, configuration and slope, and has an acceptable level of flood immunity.	<i>The rate of public park provision is identified in Table 4.14. The size for public parks is identified in Table 4.16. The maximum gradient for public parks is identified in Table 4.17. The minimum flood immunity for public parks is identified in Table 4.18.</i>
Facilities / embellishments	Public parks contain a range of embellishments to complement the type and purpose of the park.	<i>Standard embellishments for each type of park are identified in Table 4.19.</i>
Infrastructure design / performance standards	Maximise opportunities to co-locate recreational parks in proximity to other community infrastructure, transport hubs and valued environmental and cultural assets.	<i>Local government standards in planning scheme and planning scheme policies. Cooloola Shire Open Space and Recreation Plan Australian Standards.</i>

Table 4. 14 Rate of land provision

Infrastructure type	Rate of provision (Ha/1000 people)		
	Local	District	Local government-wide
Recreation park	0.4	1.4	0.5
Sport park	-	1.5	0.8
Community facilities land	-	0.1	0.1

Table 4. 15 Accessibility standard

Infrastructure type	Accessibility Standard (km)		
	Local	District	Local government-wide
Recreation park	0.5	30	80
Sport park	-	30	80
Community facilities land	-	30	80

Table 4. 16 Size of parks and community land

Infrastructure type	Minimum size (Ha)		
	Local	District	Local government-wide
Recreation park	0.5	2	2
Sport park	-	5	10
Community facilities land	-	0.2	0.5

Table 4. 17 Maximum desired grade

Infrastructure type	Maximum Gradient		
	Local	District	Local government-wide
Recreation park	1:20	1:20	1:20
Sport park	-	1:50	1:50
Community facilities land	-	1:10	1:10

Table 4. 18 Minimum desired flood immunity for parks

Infrastructure type	Minimum flood immunity (%)								
	Local			District			Local government-wide		
Flood immunity	>5yr ARI	>50yr ARI	>100yr ARI	>5yr ARI	>50yr ARI	>100yr ARI	>5yr ARI	>50yr ARI	>100yr ARI
Recreation park	100	10	-	100	10	-	100	10	-
Sport park	-	-	-	-	100	Buildings	-	100	Buildings
Community facilities land	-	-	-	-	-	100	-	-	100

Table 4. 19 Standard facilities / embellishments for parks

Park Type Features	Local Park/ Village Park	District Park	Village Sports Park	Township/ District Sports Park/ Precinct	Regional Destination Park or Regional Sports Precinct	Rest Areas and Other Open Space
Boundary Fencing	Bollards to prevent car access.	Bollards to prevent car access.	Bollards to prevent car access onto fields.	Fencing/ bollards to control access into site as well as limiting internal traffic access to field and facilities.	Range of fencing/ boundary definition styles as appropriate to location.	As needed.
Water taps/ irrigation	1-2 drinking taps/ fountains where potable water is available.	2+ drinking fountains where potable water is available. Taps for picnic areas and active recreation nodes.	Taps located on built facilities and 1 per field where potable water is available. Irrigated.	Taps located on built facilities where potable water is available. Irrigated.	Drinking fountains and taps provided at picnic nodes and built amenities/ facilities. Irrigated.	Not provided.

Park Type Features	Local Park/ Village Park	District Park	Village Sports Park	Township/ District Sports Park/ Precinct	Regional Destination Park or Regional Sports Precinct	Rest Areas and Other Open Space
Toilets	Not provided for Local Parks. Provided for Village Parks.	Usually provided.	Provided if not being provided as part of club facilities.	Provided as part of facilities.	Provided.	Not usually provided unless combined with Village Park.
Bike/ ped'n paths and facilities	On footpath and providing access to boundary (local parks only).	Paths and links to park and within park. Bike racks provided.	Bikeway links to park. Bike racks provided.	Bikeway links to park. Internal links to facilities. Bike racks provided.	Internal paths to facilities and use areas.	
Lighting	Safety lighting provided by street lights.	For car park, toilets, youth space and picnic area. For natural area parks lights in car park and toilets.	For car park, toilets, security lighting for buildings. Field lighting responsibility of clubs.	For car park, toilets, security lighting for buildings. Field lighting responsibility of clubs.	For car park, toilets, picnic shelters. Where possible. May include field lighting for sports precinct.	Not normally provided.
Playgrounds	3 play event provided.	Large multiple play events provided.	Not provided except in associated recreation nodes (e.g. Local Park).	Not provided except as part of recreation nodes.	Sometimes provided as part of picnic and use area. Depends on the other opportunities at park.	Not provided.
Youth facilities – informal active facilities	Facility for older youth e.g. ½ court or open area for kick a bout. Usually provided in Village Park or nearby.	Youth “active” facilities provided e.g. ½ court, Bike tracks, youth space etc.	Not provided except as public access to sporting fields.	Not provided except as public access to sporting fields or as dedicated facility (e.g. skate park).	No specific facility provided if park “features” accommodate activity (e.g. swimming).	Not provided.
Sporting Fields	Sometimes provided if space permits as an informal field.	Sometimes provided if space permits as an informal field.	Fields provided and developed to playing standard.	Fields developed to playing standard.	Informal fields/ playing areas sometimes provided in Regional Parks. Fields and Amenities sometimes provided in Sports Precincts.	n/a

Park Type Features	Local Park/ Village Park	District Park	Village Sports Park	Township/ District Sports Park/ Precinct	Regional Destination Park or Regional Sports Precinct	Rest Areas and Other Open Space
Picnic tables, seats, BBQs	1- 2 tables 2 + seats BBQ normally provided for Village Parks.	2+ tables 4+ seats BBQs usually provided. Sheltered tables.	Not provided except as recreation nodes. 2-4 perimeter seats.	2 perimeter seats per field. Picnic facilities provided as part of recreation node.	Multiple picnic nodes provided as required.	1-2 tables
Shade	Shade from trees or structures provided for play events and picnic nodes.	Built shade for play and picnic facilities if natural shade unavailable.	Perimeter shade from appropriate tree species.	Perimeter shade for fields from trees.	Shade for picnic facilities and all use nodes. Shade planting and structures as required.	Natural Shade and Picnic Shelters.
Landscape works	Ornamental plantings. Shade species. Buffer plantings with other use nodes.	Enhancement plantings and shade plantings along with screening and buffers.	Planted buffer areas adjacent to residential. Screening/ buffer plantings for recreation nodes.	Planted buffer areas adjacent to residential. Screening / buffer plantings for recreation.	Significant works including plantings, features, and rehabilitation work where natural vegetation critical to site. Works at entry points and plantings as appropriate.	Defined access points, regeneration and enhancement plantings.
Car parks and internal roads	On street. Mainly a walk to park.	Off- street parking provided unless sufficient on-street available.	Off street parking provided.	Off street parking provided as central hubs to facilities/ field areas- linked by internal road network.	Off street or dedicated on street parking possibly provided in several locations. Internal roads if needed.	Off street or on street parking.
Special elements	Footpath kerbing and entry to park should allow for people with mobility challenges.	Location and directional signage. May also provide larger open areas for neighbourhood events.	Location and directional signage. May also provide large informal open spaces for community and civic events.	Location and directional signage.	Location directional and interpretation signs as required. May also provide large informal open spaces for community and civic events.	Location and directional signage.