# Part 4 Local government infrastructure plan

The Local Government Infrastructure Plan for Goondiwindi Regional Council is currently under preparation and will be adopted and commenced prior to the expiration of the current Priority Infrastructure Plans (PIPs) on 30 June 2018.

The current PIPs for the former local government areas of Goondiwindi, Inglewood and Waggamba will remain in force and provide the basis for infrastructure charging until the adoption and commencement of the Local Government Infrastructure Plan.

# 4.1 Goondiwindi Priority Infrastructure Plan

#### 4.1.1 Introduction

This priority infrastructure plan has been prepared in accordance with the requirements of the *Integrated Planning Act 1997*, pursuant to Section 779 of the *Sustainable Planning Act 2009*.

#### 4.1.2 Purpose

- (1) The purpose of the priority infrastructure plan is:
  - (a) to integrate and coordinate land use planning and infrastructure planning;
  - (b) to ensure that trunk infrastructure is planned and provided in an efficient and orderly manner;
  - (c) to establish an infrastructure funding framework that is equitable and accountable.

## 4.1.3 Structure of Priority Infrastructure Plan

- (1) The priority infrastructure plan:
  - (a) identifies in Section 4.2 (application of priority infrastructure plan) how the priority infrastructure plan will be applied to development;
  - (b) states in Section 4.3 (planning assumptions) the projections of future urban growth and the assumptions of demand for each trunk infrastructure network, which have informed the preparation of the priority infrastructure plan;
  - (c) identifies in Section 4.4 (priority infrastructure area) the area which will accommodate future urban growth;
  - (d) states in Section 4.5 (desired standards of service) for each network of development infrastructure the desired standard of performance;
  - (e) identifies in Section 4.6 (plans for trunk infrastructure) the existing and planned trunk infrastructure for the following networks:
    - (i) water supply;
    - (ii) sewerage;
    - (iii) storm water;
    - (iv) transport;
    - (v) public parks and land for community facilities.

# 4.2 Application of the Priority Infrastructure Plan

# 4.2.1 Applying the Priority Infrastructure Plan to Development

- (1) The priority infrastructure plan states the basis for:
  - (a) the imposition of a condition on development requiring:
    - (i) the supply of necessary trunk infrastructure;
    - (ii) the payment of additional trunk infrastructure costs.
  - (b) the imposition by a state infrastructure provider of a condition:
    - (i) about protecting or maintaining the safety or efficiency of the provider's infrastructure network; or
    - (ii) for additional infrastructure costs; or
    - (iii) about protecting or maintaining the safety and efficiency of public passenger transport .

#### 4.2.2 Supply of Necessary Trunk Infrastructure

- (1) A condition may be imposed for the supply of necessary trunk infrastructure where:
  - existing trunk infrastructure necessary to service the premises is not adequate and trunk infrastructure adequate to service the premises is identified in the priority infrastructure plan; or
  - (b) trunk infrastructure to service the premises is necessary, but is not yet available and is identified in the priority infrastructure plan; or
  - (c) trunk infrastructure identified in the priority infrastructure plan is located on the premises.

## 4.2.3 Payment of Additional Trunk Infrastructure Costs

- (1) A condition may be imposed requiring the payment of additional infrastructure costs where:
  - (a) the development:
    - (i) is inconsistent with the assumptions set out in Section 4.3; or
    - (ii) is located completely or partly outside the priority infrastructure area.

#### 4.2.3.1 Test for Inconsistency with Assumptions for Development Inside the PIA

- (1) Development is inconsistent with the assumptions if:
  - (a) the type of development was not anticipated to occur in that location based on the planning scheme land uses; or
  - (b) the development results in the total number of dwellings forecasted for the relevant priority infrastructure area (PIA) locality being exceeded in Table 4.3.1; or
  - (c) the development results in the total amount of non-residential Gross Floor Area (GFA) forecasted for the relevant planning infrastructure area (PIA) locality being exceeded in Table 4.3.2; or
  - (d) the timing of development is such that trunk infrastructure to service the premises is to be supplied earlier than anticipated in the priority infrastructure plan.

# 4.3 Planning Assumptions

### 4.3.1 Purpose

- (1) The planning assumptions summarised in Tables 4.3.1 and 4.3.2 outline the projections of residential and non-residential development for the area to which the priority infrastructure plan applies.
- (2) The assumptions have been developed in accordance with the land use planning provisions of the planning scheme and the anticipated growth in population and employment within the area to which the PIP applies. They form a logical basis for the planning of the networks.
- (3) Further detailed background information concerning the planning assumptions is referenced in Section 4.7 (extrinsic material).



# 4.3.2 Population and Housing Projections

**Table 4.3.1 Population and Housing Projections** 

Area	Dwelling Type	Existing and Projected Population (persons)			Average Occupancy Rate	Existing and Projected Dwellings				
		2006	2011	2016	2021	(persons Idwelling)	2006	2011	2016	2021
	Single Dwelling	3,944	4,117	4,273	4,423	2.38	1,656	1,729	1,794	1,857
Inside PIA -	Multiple <u>Dwelling</u>	934	975	1.012	1.048	1.93	483	504	523	542
Goondiwindi Town	Other*	153	159	165	171	2.43	63	66	68	71
	Total	5,031	5,252	5,450	5,643	2.28	2,202	2,299	2,386	2,470
	Single Dwelling	0	0	0	0	2.38	0	0	0	0
Outside DIA	Multiple <u>Dwelling</u>	0	0	0	0	1.93	0	0	0	0
Outside PIA	Other*	0	0	0	0	2.43	0	0	0	0
	Total	0	0	0	0	2.28	0	0	0	0
Total	Single Dwelling	3,944	4,117	4,273	4,423	2.38	1,656	1,729	1,794	1,857
Planning Scheme	Multiple Dwelling	934	975	1,012	1,048	1.93	483	504	523	542
	Other*	153	159	165	171	2.43	63	66	68	71
Area	Total	5,031	5,252	5,450	5,643	2.28	2,202	2,299	2,386	2,470

<sup>\*</sup> Refers to dwellings such as aged care units and retirement units

Note: The PIP-RIGS calculator output (supplied by DIP) is based on the Urban Centre of Goondiwindi as defined by population density in Census Collection Districts (CDs) in 2006. These CDs include all of Goondiwindi Town and extends into Waggamba Shire.

The Planning Information and Forcasting Unit (PIFU) Office of Economic Statistical Research (OESR) Queensland Treasury supplied the following 2006 Estimated Residential Population (ERP) for:

- Goondiwindi Town Centre of 6003; and
- Goondiwindi Town LGA of 5031.

Therefore a PIP-RIGS calculator output based on the 2006 ERP for Goondiwindi Town LGA has been produced.

# 4.3.3 Employment and Non-residential Floor Space Projections

Table 4.3.2 Employment and Non-residential Floor Space Projections

Area	Land Use and Developm			oyment oyees)		Average Floor Space Conversion Rate (m2 GFA /	Floor Space (m <sup>2</sup> GFA)			
	ent Type	2006 2011 2016 2021 employee)		2006	2011	2016	2021			
	Commercial	871	909	943	977	20	17,416	18,181	18,868	19,533
	Retail	439	458	476	492	25	10,975	11,457	11,889	12,309
Inside PIA *	Industry	347	362	376	389	110	38,134	39,809	41,313	42 ,770
IIISIUC FIA	Community	169	177	183	190	NA	NA	NA	NA	NA
	Other*	595	621	644	667	NA	NA	NA	NA	NA
	Total	2,421	2,527	2,622	2,715	NA	66,525	69,446	72,070	74,612
	Commercial	0	0	0	0	20	0	0	0	0
	Retail	0	0	0	0	25	0	0	0	0
Outside PIA	Industry	0	0	0	0	110	0	0	0	0
	Community	0	0	0	0	NA	NA	NA	NA	NA
	Other*	0	0	0	0	NA	NA	NA	NA	NA
	Total	0	0	0	0	NA	0	0	0	0
	Commercial	871	909	943	977	20	17,416	18, 181	18,868	19,533
Total	Retail	439	458	476	492	25	10,975	11,457	11,889	12,309

42,770

NA

NA

74,612

NA

72,070



667

2,715

NA

NA

NA

66,525

NA

69,446

• Other includes footloose and rural employment

Other\*

Total

Planning

Scheme Area

Note: The PIP-RIGS calculator output (supplied by DIP) is based on the Urban Centre of Goondiwindi as defined by population density in Census Collection Districts (CDs) in 2006. These CDs include all of Goondiwindi Town and extends into Waggamba Shire.

The Planning Information and Forcasting Unit (PIFU) Office of Economic Statistical Research (OESR) Queensland Treasury supplied the following 2006

644

2,622

Estimated Residential Population (ERP) for:

- Goondiwindi Town Centre of 6003; and
- Goondiwindi Town LGA of 5031.

Therefore a PIP-RIGS calculator output based on the 2006 ERP for Goondiwindi Town LGA has been produced.

621

2,527

595

2,421

# 4.4 Priority Infrastructure Area

## 4.4.1 Purpose

- (1) The priority infrastructure area (PIA) identifies the area where council plans to provide trunk infrastructure for urban development up to 2020.
- (2) The PIA is the area where suitable and adequate development infrastructure exists, or where it can be provided most efficiently.

### 4.4.2 The Priority Infrastructure Area

#### 4.4.2.1 Determination of the PIA

- (1) The PIA is determined by the extent of the existing infrastructure networks.
- (2) The boundary of the PIA is the area serviced by both the reticulated water supply system and the reticulated sewerage system.

#### 4.4.2.2 PIA Map

- (1) The PIA is shown on the following maps:
  - (a) Map Ref: 19PIA1 Priority Infrastructure Area Town of Goondiwindi

# 4.5.1 Water Supply Desired Standards of Service

Measure	Planning Criteria (Qualitative Standards)	Design Criteria (Quantitative Standards)
Reliability/continuity of supply	All development receives a reliable supply of potable water with minimal interruptions to their service.	Customer service standards     Customer service obligations
Adequacy of supply	All development is provided with a water supply that is adequate for the intended use.	<ul> <li>Water Service         Association of Australia codes     </li> <li>IPWEA standards</li> </ul>
Quality of supply	Provide a uniform water quality in accordance with recognised standards that safeguards community health and is free from objectionable taste and odour.	The Australian Drinking Water Guidelines developed by the National Health and Medical Research Council
Environmental impacts	The environmental impacts of the water supply network are minimised in accordance with community expectations.	Compliance with the requirements of the Environmental Protection Act 1994 and associated Environmental Protection Policies and the Water Act 2000
Pressure and leakage management	The water supply network is monitored and managed to maintain the reliability and adequacy of supply and to minimise environmental impacts.	System Leakage     Management Plan (Chapter     3, Part 3, Division 1A Water     Act 2000)
Infrastructure design / planning standards	Design of the water supply network will comply with established codes and standards.	Water Supply Code of     Australia- Water Services     Association of Australia- WSA 03-2002     The Australian Drinking     Water Guidelines     developed by the     National Health and     Medical Research     Council     Planning Guidelines for     Water Supply and     Sewerage- Department of     Natural Resources and     Water (NRW)

# 4.5.2 Sewerage Network Desired Standards of Service

Measure	Planning Criteria (Qualitative Standards)	Design Criteria (Quantitative Standards)
Reliability	All development has access to a reliable sewerage collection, conveyance, treatment and disposal system.	<ul><li>Customer service standards</li><li>Customer service obligations</li></ul>
Quality of treatment	Ensures the health of the community and the safe and appropriate level of treatment and disposal of treated effluent.	Local water quality guidelines prepared in accordance with the National Water Quality Management Strategy     Queensland Water Quality Guidelines 2006-Environmental Protection Agency (where local guidelines do not exist)     National Water Quality Guidelines-National Water Quality Management Strategy (where local or regional guidelines do not exist)
Environmental impacts	The environmental impacts of the sewerage network are minimised in accordance with community expectations.	Compliance with the requirements of the Environmental Protection Act 1994 and associated Environmental Protection policies
Effluent re-use	Reuse effluent wherever possible.	Guidelines for Sewerage     Systems: Reclaimed Water     -February     2000     Queensland Water     Recycling Guidelines-     December 2005
Infrastructure design / planning standards	Design of the sewerage network will comply with established codes and standards.	Planning Guidelines for Water Supply and Sewerage-NRW  Sewerage Code of Australia-Water Services Association of Australia-WSA 02-2002  Sewerage Pumping Station Code of Australia-Water Services Association of Australia-WSA 04-2005

# 4.5.3 Stormwater Network Desired Standards of Service

Measure	Planning Criteria (Qualitative Standards)	Design Criteria (Quantitative Standards)
Quantity	Collect and convey stom, water in natural and engineered channels, a piped, drainage network and system of overland flow paths to a lawful point of discharge, in a safe manner that minimises the inundation of habitable rooms and protects life.	Queensland Urban Drainage Manual-NRW
Quality	The water quality of urban catchments and waterways is managed to protect and enhance environmental values and pose no health risk to the community.	Local water quality guidelines prepared in accordance with the National Water Quality Management Strategy     Queensland Water Quality Guidelines 2006-Environmental Protection Agency (EPA) (where local guidelines do not exist)     National Water Quality Guidelines-National Water Quality Management Strategy (where local or regional guidelines do not exist)
Environmental impacts	Adopt water-sensitive urban design principles and on-site water quality management to achieve EPA water quality objectives .	Section 42 Environmental Protection [Water] Policy 1997
Infrastructure design / planning standards	Design of the stormwater network will comply with established codes and standards.	Queensland Urban     Drainage Manua/-N RW     Natural Channel     Design Guidelines

# 4.5.4 Transport Network Desired Standards of Service

Measure	Planning Criteria (Qualitative Standards)	Design Criteria (Quantitative Standards)
Road network design <i>f</i> planning standards	The road network provides a functional urban and rural hierarchy that supports settlement patterns, commercial and economic activities, and freight movement.  Design of the road system will comply with established codes and standards.	<ul> <li>Road Planning and Design Manual developed by the Department of Transport and Main Roads</li> <li>Australian Standards</li> <li>AUSTROADS guides</li> </ul>
Public transport design <i>I</i> planning standards	New urban development is designed to achieve safe and convenient walking distance to existing or potential bus stops, or existing or proposed demand- responsive public transport routes.	<ul> <li>Design accords with the performance criteria set by Department of Transport and Main Roads</li> <li>AUSTROADS guides for roadbased public transport and high- occupancy vehicles</li> </ul>
Cycleway and pathway design <i>I</i> planning standards	Cycle ways and pathways provide a safe and convenient network that encourages walking and cycling as acceptable alternatives.  Design of the network will comply with established codes and standards.	<ul> <li>Australian Standards</li> <li>AUSTROADS Guide to Traffic Engineering Practice- Part 14 (Chapter 10)</li> <li>Queensland Streets Manual</li> </ul>

# 4.5.5 Public Parks and land for Community Facilities Network Desired Standards of Service

Measure	Planning Criteria (Qualitative Standards)	Design Criteria (Quantitative Standards)
Functional network	A network of parks and community land is established to provide for the full range of recreational and sporting activities and pursuits.	<ul> <li>Parks and community land is provided at a local, district and LGA-wide level</li> <li>Parks and community land addresses the needs of both recreation and sport</li> </ul>
Accessibility	Public parks will be located to ensure adequate pedestrian, cycle and vehicle access.	No quantitative standards are prescribed
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.	No quantitative standards are prescribed
Facilities / embellishments	Public parks contain a range of embellishments to complement the type and purpose of the park.	No quantitative standards are prescribed
Infrastructure design <i>I</i> performance standards	Maximise opportunities to colocate recreational parks in proximity to other community infrastructure, transport hubs and valued environmental and cultural assets.	Australian Standards

# 4.6 Plans for Trunk Infrastructure

### 4.6.1 Purpose

(1) The plans for trunk infrastructure (PFTI) identify the existing and proposed trunk infrastructure networks intended to service urban development.

### 4.6.2 Trunk Infrastructure Systems and Items

(1) Table 4.6.1 defines the trunk infrastructure networks, systems and items covered by the priority infrastructure plan.

Table 4.6.1 Trunk Infrastructure Networks. Systems and Items

Network	System	Elements
Water Supply	Bulk supply  Distribution	<ul> <li>Water treatment and recycling facilities</li> <li>Water sources including dams, bores, desalination facilities</li> <li>Pump stations</li> <li>Telemetry systems</li> <li>Reservoirs and other storage facilities</li> </ul>
		<ul> <li>Pump Station</li> <li>Trunk mains and associated fittings</li> <li>Fire fighting devices</li> <li>Telemetry systems</li> </ul>
	Reticulation	<ul> <li>Pump stations</li> <li>Trunk mains and associated fittings</li> <li>Manholes</li> <li>Telemetry systems</li> </ul>
	Sewerage treatment	<ul><li>Sewerage treatment facility</li><li>Sewer release systems</li><li>Telemetry systems</li></ul>
Storm Water	Quantity	<ul> <li>Piped drainage (including pipes, box culverts, manholes, inlets and outlets)</li> <li>Detention and retention facilities</li> <li>Overland flow paths/channels (natural and constructed)</li> <li>Bank stabilisation, erosion protection and revegetation</li> </ul>
	Quality	• Nil
Transport	Local government and state controlled	<ul> <li>Arterial, sub-arterial and major collector roads including associated intersections local road drainage, kerb and channel, swales, culverts, bridges, roundabouts, traffic lights, lighting, signage, on- road cycle lanes, pathways basic verge revegetation including shade trees, turf and local drainage within the road reserve</li> </ul>
	Public transport	<ul> <li>Bus stops, signs and shelters</li> </ul>
	Off-road pathways	<ul> <li>Cycleways and pedestrian pathways not within the road reserve, including associated culverts, bridges, lighting, directional and information signage and surface marking</li> </ul>
Public Parks.	Public parks	<ul> <li>Land, works and embellishments for local, district and local government-wide</li> </ul>

TAKET LOCAL	30 Verrimerre infrastractare riari
	<ul> <li>parks</li> <li>Parks for formal and informal recreation and sporting purposes</li> <li>Park embellishments including public amenities, shade structures, playgrounds including soft fall and safety fencing, bollards, dog off-</li> <li>leash areas, retaining walls, access roads and on-site car parks, footpaths and cycle ways, lighting, drink bubblers and taps, picnic tables, line marking, turf and irrigation (of sporting fields), barbeques, skate bowl, boat ramps and fishing platforms built by council and open to the public, sporting facilities including goal posts, soccer nets, netball posts, half-courts and basic spectator seating, bike racks, signage and provision of services (e.g. water, power)</li> <li>Land contributed in lieu of payment of infrastructure charges</li> </ul>
Land for community facilities	<ul> <li>Land and basic works associated with the clearing of land and connection to services</li> <li>Land only for community facilities which allow public access, not restricted by membership, for purposes such as youth centres, senior citizens centre I meeting halls, council chambers, neighbourhood centres, meeting halls libraries, performing arts centres, museums art galleries, community centres and swimming pools</li> </ul>

#### 4.6.3 Plans for Trunk Infrastructure

- (1) Plans identifying the existing and future trunk infrastructure for each infrastructure network are shown on the following maps:
  - (a) Water Supply:
    - (i) Map Ref: 19WAT1 Trunk Infrastructure Water Supply Town of Goondiwindi
  - (b) Sewerage:
    - (ii) Map Ref: 19SEW1 Trunk Infrastructure Sewerage Town of Goondiwindi
  - (c) Storm Water:
    - (iii) Map Ref: 19STW1 Trunk Infrastructure Storm Water Town of Goondiwindi
  - (d) Transport:
    - (iv) Map Ref: 19RDS1 Trunk Infrastructure Transport Town of Goondiwindi
  - (e) Public Parks and Land for Community Facilities:
    - (v) Map Ref: 19PKS1 Trunk Infrastructure Public Parks and Land for Community Facilities Town of Goondiwindi

#### 4.6.4 Schedule of Works

(1) Tables 4.6.2 to 4.6.4 provide details of future trunk infrastructure for each network

**Table 4.6.2 Schedule of Works Water Supply Network** 

Map Ref	Item ID	Trunk Infrastructure Asset Description	Estimated year of Completion	Estimated Cost (\$)
		New booster pump - Old Cunningham Highway	2012	\$250,000
		Telemetry upgrades various locations Stage 1	2012	\$13,333
		Telemetry upgrades various locations Stage2	2014	\$13,333
		Bore as George Street WTP	2015	\$250,000
		Upgrade Riddle Street booster pump station	2016	\$150,000
		Telemetry upgrades various locations Stage3	2016	\$13,333
		Telemetry upgrades various locations Stage4	2018	\$13,333
Total estim	ated cost	·		\$703,332

Table 4.6.3 Schedule of Works Sewerage Network

Map Ref	Item ID	Trunk Infrastructure Asset Description	Estimated year of Completion	Estimated Cost (\$)
		PS1 upgrade (balance of staged construction)	2012	\$140,000
		Telemetry upgrades various locations Stage 1	2012	\$13,333
		New rising main discharging to 225 dia trunk main in Herbert Street	2013	\$90,000
		STP upgrade Stage 1	2013	\$5,000,000
		PS4 upgrade	2013	\$70,000
		New rising main - Herbert Street	2013	\$100,000
		STP upgrade Stage 2	2014	\$5,000,000
		Waste water reuse scheme Stage 1	2014	\$1,000,000
		PS5 upgrade	2014	\$100,000
		Divert PS10 to Lamberth Road trunk main	2014	\$10,000
		Telemetry upgrades various locations Stage 2	2014	\$13,333
		STP upgrade Stage 3	2015	\$7,000,000
		Waste water reuse scheme Stage 2	2015	\$1,000,000
		Telemetry upgrades various locations Stage 3	2016	\$13,333
		PS6 upgrade		\$60,000
		Telemetry upgrades various locations Stage 4	2018	\$13,333
Total estin	nated cost			\$19,623,332

**Table 4.6.4 Schedule of Works Transport Network** 

Map Ref	Item ID	Trunk Infrastructure Asset Description	Estimated year of Completion	Estimated Cost (\$)
		Lamberth Road footpath <i>I</i> bilkeway extension	2012	\$165,000
		Lamberth Road widen <i>I</i> extend pavement and seal	2012	\$550,000
		Old Cunningham Highway AC and pavement improvements	2012	\$150,000
		Lagoon Street crossing at cultural	2013	\$75,000

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Map Ref	Item ID	Trunk Infrastructure Asset Description	Estimated year of Completion	Estimated Cost (\$)
		centre		
		Frideswide Street footbridge at Serpentine Creek	2014	\$50,000
		McLean Street AC and pavement improvements	2014	\$120,000
		Herbert Street Brisbane to George additional funds for rehab/upgrade	2016	\$275,000
		Sandhurst Street pavement widening Moffat Street to McLean Street	2016	\$200,000
		Frideswide Street bikeway George Street to Marshall Street	2017	\$125,000
		Moffat Street McDougall Street at rail overpass	2017	\$35,000
		Lamberth Road traffic calming various locations	2020	\$75,000
Total estima	ated cost			\$1,820,000

- (1) The extrinsic material provides detailed background information relevant to the preparation of this priority infrastructure plan. Copies of this material are available for inspection and I or purchase.
  - (a) PIP-RICS calculator version 10

# 4.8 Plans for Trunk Infrastructure Maps

#### **Table 4.8.1 Priority Infrastructure Area Plans**

Map Ref	Drawing Title
19PIA1	Priority Infrastructure Area – Town of Goondiwindi

#### **Table 4.8.2 Existing Trunk Infrastructure and Service Catchment Plans**

Map Ref	Drawing Title					
19WAT1	Trunk Infrastructure Water Supply	Town of Goondiwindi				
19SEW1	Trunk Infrastructure Sewerage	Town of Goondiwindi				
19STW1	Trunk Infrastructure Stormwater	Town of Goondiwindi				
19RDS1	Trunk Infrastructure Transport	Town of Goondiwindi				
19PKS1	Trunk Infrastructure Public Parks, and Land for Community Facilities	Town of Goondiwindi				

# 4.9 Inglewood Priority Infrastructure Plan

#### 4.9.1 Introduction

This priority infrastructure plan has been prepared in accordance with the requirements of the *Integrated Planning Act 1997*, pursuant to Section 779 of the *Sustainable Planning Act 2009*.

#### 4.9.2 Purpose

- (2) The purpose of the priority infrastructure plan is:
  - (a) to integrate and coordinate land use planning and infrastructure planning;
  - (b) to ensure that trunk infrastructure is planned and provided in an efficient and orderly manner:
  - (c) to establish an infrastructure funding framework that is equitable and accountable.

## 4.9.3 Structure of Priority Infrastructure Plan

- (1) The priority infrastructure plan:
  - (a) identifies in Section 4.10 (application of priority infrastructure plan) how the priority infrastructure plan will be applied to development;
  - (b) states in Section 4.11 (planning assumptions) the projections of future urban growth and the assumptions of demand for each trunk infrastructure network, which have informed the preparation of the priority infrastructure plan;
  - (c) identifies in Section 4.12 (priority infrastructure area) the area which will accommodate future urban growth;
  - (d) states in Section 4.13 (desired standards of service) for each network of development infrastructure the desired standard of performance;
  - (e) identifies in Section 4.14 (plans for trunk infrastructure) the existing and planned trunk infrastructure for the following networks:
    - (i) water supply;
    - (ii) sewerage;
    - (iii) transport;
    - (iv) public parks and land for community facilities.

## 4.10.1 Applying the Priority Infrastructure Plan to Development

- (1) The priority infrastructure plan states the basis for:
  - (a) the imposition of a condition on development requiring:
    - (i) the supply of necessary trunk infrastructure;
    - (ii) the payment of additional trunk infrastructure costs.
  - (b) the imposition by a state infrastructure provider of a condition:
    - about protecting or maintaining the safety or efficiency of the provider's infrastructure network; or
    - (ii) for additional infrastructure costs; or
    - (iii) about protecting or maintaining the safety and efficiency of public passenger transport .

### 4.10.2 Supply of Necessary Trunk Infrastructure

- (1) A condition may be imposed for the supply of necessary trunk infrastructure where:
  - (a) existing trunk infrastructure necessary to service the premises is not adequate and trunk infrastructure adequate to service the premises is identified in the priority infrastructure plan; or
  - (b) trunk infrastructure to service the premises is necessary, but is not yet available and is identified in the priority infrastructure plan; or
  - (c) trunk infrastructure identified in the priority infrastructure plan is located on the premises.

# 4.10.3 Payment of Additional Trunk Infrastructure Costs

- (1) A condition may be imposed requiring the payment of additional infrastructure costs where:
  - (a) the development:
    - (i) is inconsistent with the assumptions set out in Section 4.11; or
    - (ii) is located completely or partly outside the priority infrastructure area.

#### 4.10.3.1 Test for Inconsistency with Assumptions for Development Inside the PIA

- (1) Development is inconsistent with the assumptions if:
  - (a) the type of development was not anticipated to occur in that location based on the planning scheme land uses; or
  - (b) the development results in the total number of dwellings forecasted for the relevant priority infrastructure area (PIA) locality being exceeded in Table 4.11.1; or
  - (c) the development results in the total amount of non-residential Gross Floor Area (GFA) forecasted for the relevant planning infrastructure area (PIA) locality being exceeded in Table 4.11.2; or
  - (d) the timing of development is such that trunk infrastructure to service the premises is to be supplied earlier than anticipated in the priority infrastructure plan.

### **4.11.1 Purpose**

- (1) The planning assumptions summarised in Tables 4.11.1 and 4.11.2 outline the projections of residential and non-residential development for the area to which the priority infrastructure plan applies.
- (2) The assumptions have been developed in accordance with the land use planning provisions of the planning scheme and the anticipated growth in population and employment within the area to which the PIP applies. They form a logical basis for the planning of the networks.
- (3) Further detailed background information concerning the planning assumptions is referenced in Section 4.15 (extrinsic material).



# **4.11.2 Population and Housing Projections**

**Table 4.11.1 Population and Housing Projections** 

Area	Dwelling Type	Existing and Projected Population (persons)			Average Occupancy Rate	Existing and Projected Dwellings				
		2006	2011	2016	2021	(persons/dwelling)	2006	2011	2016	2021
InsidePIA- Inglewood (L)	Single Dwelling	805	811	815	819	1.91	421	424	426	428
	Multiple Dwelling	17	17	17	17	1.03	16	16	16	17
	Other*	33	34	34	34	1.59	21	21	21	21
	Total	856	861	866	870	1.87	458	461	463	466
	Single Dwelling	693	698	701	705	1.91	362	365	366	368
Inside PIA -	Multiple Dwelling	14	15	15	15	1.03	14	14	14	14
Texas (L)	Other*	29	29	29	29	1.59	18	18	18	18
	Total	736	741	745	749	1.87	394	397	399	401
_	Single Dwelling	1,016	1,023	1,028	1,034	1.91	531	535	537	540
Outside PIA	Multiple <u>Dwelling</u>	21	21	21	22	1.03	21	21	21	21
Catolac I II t	Other*	42	42	43	43	1.59	27	27	27	27
	Total	1,080	1,087	1,092	1,098	1.87	578	582	585	588
Total	Single Dwelling	2,515	2,532	2,545	2,558	1.91	1,314	1,323	1,329	1,337
Planning	Multiple Dwelling	52	53	53	53	1.03	51	51	51	52
Scheme Area	Other*	104	105	105	106	1.59	66	66	66	67
	Total	2,672	2,689	2,703	2,718	1.87	1,431	1,440	1,447	1,455

<sup>\*</sup> Refers to dwellings such as aged care units and retirement units

# 4.11.3 Employment and Non-residential Floor Space Projections

Table 4.11.2 Employment and Non-residential Floor Space Projections

Area Deve	Land Use and Development	Employment (employees)			Average Floor Space Conversion Rate (m2 GFA/employee)	Floor Space (m² GFA)				
	Туре	2006	2011	2016	2021	(mz or / t/ omployeo)	2006	2011	2016	2021
	Commercial	141	142	142	143	20	2,815	2,833	2,848	2,863
In aida DIA	Retail	46	46	47	47	25	1,152	1,159	1,165	1,172
Inside PIA – Inglewood	Industry	62	62	62	63	110	6,795	6,839	6,874	6,911
(L)	Community	35	36	36	36	NA	NA	NA	NA	NA
	Other*	0	0	0	0	NA	NA	NA	NA	NA
	Total	284	286	287	289	NA	10,761	10,832	10,887	10,946
	Commercial	121	122	123	123	20	2,423	2,439	2,452	2,465
Inside PIA	Retail	40	40	40	40	25	992	998	1,003	1,009
- Texas	Industry	53	54	54	54	110	5,849	5,887	5,917	5,949
(L)	Community	31	31	31	31	NA	NA	NA	NA	NA
	Other*	0	0	0	0	NA	NA	NA	NA	NA
	Total	245	246	247	249	NA	9,264	9,324	9,372	9,423
	Commercial	0	0	0	0	20	0	0	0	0
	Retail	0	0	0	0	25	0	0	0	0
Outside PIA	Industry	0	0	0	0	110	0	0	0	0
34.5.25, (	Community	0	0	0	0	NA	NA	NA	NA	NA
	Other*	417	420	422	425	NA	NA	NA	NA	NA
	Total	417	420	422	425	NA	0	0	0	0



Total	Commercial	262	264	265	266	20	5,238	5,273	5,299	5,328
	Retail	86	86	87	87	25	2,143	2,157	2,168	2, 180
Planning Scheme	Industry	115	116	116	117	110	12,643	12,726	12,791	12,860
Area	Community	66	66	67	67	NA	NA	NA	NA	NA
	Other*	417	420	422	425	NA	NA	NA	NA	NA
	Total	946	952	957	962	NA	20,025	20,156	20,259	20,369

<sup>\*</sup> Other includes footloose and rural employment

# **4.12.1 Purpose**

- (1) The priority infrastructure area (PIA) identifies the area where council plans to provide trunk infrastructure for urban development up to 2020.
- (2) The PIA is the area where suitable and adequate development infrastructure exists, or where it can be provided most efficiently.

### 4.12.2 The Priority Infrastructure Area

#### 4.12.2.1 Determination of the PIA

- (1) The PIA is determined by the extent of the existing infrastructure networks.
- (2) The boundary of the PIA is the area serviced by both the reticulated water supply system and the reticulated sewerage system.

#### 4.12.2.2 PIA Map

- (2) The PIA is shown on the following maps:
  - (a) Map Ref: 29PIA1 Priority Infrastructure Area Town of Inglewood
  - (b) Map Ref. 29PIA2 Priority Infrastructure Area Town of Texas

# 4.13.1 Water Supply Networks Desired Standards of Service

Measure	Planning Criteria (Qualitative Standards)	Design Criteria (Quantitative Standards)
Reliability/continuity of supply	All development receives a reliable supply of potable water with minimal interruptions to their service.	<ul> <li>Customer service standards</li> <li>Customer service obligations</li> </ul>
Adequacy of supply	All development is provided with a water supply that is adequate for the intended use.	<ul> <li>Water Service         Association of Australia         codes</li> <li>IPWEA standards</li> <li>Customer service         standards</li> </ul>
Quality of supply	Provide a uniform water quality in accordance with recognised standards that safeguards community health and is free from objectionable taste and odour.	The Australian Drinking     Water Guidelines     developed by the     National Health and     Medical Research     Council
Environmental impacts	The environmental impacts of the water supply network are minimised in accordance with community expectations.	Compliance with the requirements of the Environmental Protection Act 1994 and associated Environmental Protection Policies and the Water Act 2000
Pressure and leakage management	The water supply network is monitored and managed to maintain the reliability and adequacy of supply and to minimise environmental impacts.	<ul> <li>System Leakage         Management Plan         (Chapter 3, Part 3,         Division 1A Water Act         2000)     </li> </ul>
Infrastructure design / planning standards	Design of the water supply network will comply with established codes and standards.	Water Supply Code of Australia- Water Services Association of Australia-WSA 03-2002     The Australian Drinking Water Guidelines developed by the National Health and Medical Research Council     Planning Guidelines for Water Supply and Sewerage- Department of Natural Resources and Water (NRW)

# 4.13.2 Sewerage Network Desired Standards of Service

Measure	Planning Criteria (Qualitative Standards)	Design Criteria (Quantitative Standards)
Reliability	All development has access to a reliable sewerage collection, conveyance, treatment and disposal system.	<ul><li>Customer service standards</li><li>Customer service obligations</li></ul>
Quality of treatment	Ensures the health of the community and the safe and appropriate level of treatment and disposal of treated effluent.	<ul> <li>Local water quality guidelines prepared in accordance with the National Water Quality Management Strategy</li> <li>Queensland Water Quality Guidelines 2006-Environmental Protection Agency (where local guidelines do not exist)</li> <li>National Water Quality Guidelines-National Water Quality Management Strategy (where local or regional guidelines do not exist)</li> </ul>
Environmental impacts	The environmental impacts of the sewerage network are minimised in accordance with community expectations.	Compliance with the requirements of the Environmental Protection Act 1994 and associated Environmental Protection policies
Effluent re-use	Reuse effluent wherever possible.	<ul> <li>Guidelines for Sewerage Systems: Reclaimed Water -February 2000</li> <li>Queensland Water Recycling Guidelines- December 2005</li> </ul>
Infrastructure design / planning standards	Design of the sewerage network will comply with established codes and standards.	<ul> <li>Planning Guidelines for Water Supply and Sewerage-NRW</li> <li>Sewerage Code of Australia- Water Services Association of Australia-WSA 02- 2002</li> <li>Sewerage Pumping Station Code of Australia- Water Services Association of Australia- WSA 04-2005</li> </ul>

Measure	Planning Criteria (Qualitative Standards)	Design Criteria (Quantitative Standards)
Road network design / planning standards	The road network provides a functional urban and rural hierarchy that supports settlement patterns, commercial and economic activities, and freight movement.  Design of the road system will comply with established codes and standards.	<ul> <li>Road Planning and         Design Manual         developed by the         Department of Transport         and Main Roads</li> <li>Australian Standards</li> <li>AUSTROADS guides</li> </ul>
Public transport design <i>I</i> planning standards	New urban development is designed to achieve safe and convenient walking distance to existing or potential bus stops, or existing or proposed demandresponsive public transport routes.	<ul> <li>Design accords with the performance criteria set by Department of Transport and Main Roads</li> <li>AUSTROADS guides for road- based public transport and high-occupancy vehicles</li> </ul>
Cycleway and pathway design <i>I</i> planning standards	Cycle ways and pathways provide a safe and convenient network that encourages walking and cycling as acceptable alternatives.  Design of the network will comply with established codes and standards.	<ul> <li>Australian Standards</li> <li>AUSTROADS Guide to Traffic Engineering Practice-Part 14 (Chapter 10)</li> <li>Queensland Streets Manual</li> </ul>

# 4.13.4 Public Parks and Land for Community Facilities Network Desired Standard of Service

Measure	Planning Criteria (Qualitative Standards)	Design Criteria (Quantitative Standards)
Functional network	A network of parks and community land is established to provide for the full range of recreational and sporting activities and pursuits.	<ul> <li>Parks and community land is provided at a local, district and LGA-wide level</li> <li>Parks and community land addresses the needs of both recreation and sport</li> </ul>
Accessibility	Public parks will be located to ensure adequate pedestrian, cycle and vehicle access.	<ul> <li>No quantitative standards are prescribed</li> </ul>
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.	No quantitative standards are prescribed
Facilities / embellishments	Public parks contain a range of embellishments to complement the type and purpose of the park.	<ul> <li>No quantitative standards are prescribed</li> </ul>
Infrastructure design <i>I</i> performance standards	Maximise opportunities to colocate recreational parks in proximity to other community infrastructure, transport hubs and valued environmental and cultural assets.	Australian Standards

# 4.14 Plans for Trunk Infrastructure

# **4.14.1 Purpose**

(1) The plans for trunk infrastructure (PFTI) identify the existing and proposed trunk infrastructure networks intended to service urban development.

# 4.14.2 Trunk Infrastructure Networks, Systems and Items

(1) Table 4.14.1 defines the trunk infrastructure networks, systems and items covered by the priority infrastructure plan.

Table 4.14.1 Trunk Infrastructure Networks, Systems and Items

Network	System	Elements
Water Supply	Bulk supply  Distribution	<ul> <li>Water treatment and recycling facilities</li> <li>Water sources including dams, bores, desalination facilities</li> <li>Pump stations</li> <li>Telemetry systems</li> <li>Reservoirs and other storage facilities</li> </ul>
		<ul> <li>Pump Station</li> <li>Trunk mains and associated fittings</li> <li>Fire fighting devices</li> <li>Telemetry systems</li> </ul>
Sewerage	Reticulation	<ul> <li>Pump stations</li> <li>Trunk mains and associated fittings</li> <li>Manholes</li> <li>Telemetry systems</li> </ul>
	Sewerage treatment	<ul><li>Sewerage treatment facility</li><li>Sewer release systems</li><li>Telemetry systems</li></ul>
Transport	Local government and state controlled	<ul> <li>Arterial, sub-arterial and major collector roads including associated intersections, local road drainage, kerb and channel, swales, culverts, bridges, roundabouts, traffic lights, lighting, signage, on- road cycle lanes, pathways basic verge revegetation including shade trees, turf and local drainage within the road reserve</li> </ul>
	Public transport	<ul> <li>Bus stops, signs and shelters</li> </ul>
	Off-road pathways	<ul> <li>Cycleways and pedestrian pathways not within the road reserve, including associated culverts, bridges, lighting, directional and information signage and surface marking</li> </ul>
Public Parks.	Public parks	<ul> <li>Land, works and embellishments for local, district and local government-wide parks</li> <li>Parks for formal and informal recreation and sporting purposes</li> <li>Park embellishments including public amenities, shade structures, playgrounds including soft fall and safety fencing, bollards, dog off- leash areas, retaining walls, access roads and on-site car parks, footpaths and cycle ways, lighting, drink bubblers and taps,</li> </ul>

#### 4.14.3 Plans for Trunk Infrastructure

- (1) Plans identifying the existing and future trunk infrastructure for each infrastructure network are shown on the following maps:
  - (a) Water Supply:
    - (i) Map Ref: 29WAT1 Trunk Infrastructure Water Supply Town of Inglewood
    - (ii) Map Ref. 29WAT2 Trunk Infrastructure Water Supply Town of Texas
  - (b) Sewerage:
    - (i) Map Ref: 29SEW1 Trunk Infrastructure Sewerage Town of Inglewood
    - (ii) Map Ref: 29SEW2 Trunk Infrastructure Sewerage Town of Texas
  - (c) Transport:
    - (i) Map Ref: 29RDS1 Trunk Infrastructure Transport Local Government Area Inglewood Shire
    - (ii) Map Ref: 29RDS2 Trunk Infrastructure Transport Town of Inglewood
    - (iii) Map Ref: 29RDS3 Trunk Infrastructure Transport Town of Texas
  - (d) Public Parks and Land for Community Facilities:
    - (i) Map Ref: 29PKS1 Trunk Infrastructure Public Parks and Land for Community Facilities Local Government Area Inglewood Shire
    - (ii) Map Ref: 29PKS2 Trunk Infrastructure Public Parks and Land for Community Facilities Town of Inglewood
    - (iii) Map Ref: 29PKS3 Trunk Infrastructure Public Parks and Land for Community Facilities Town of Texas

#### 4.14.4 Schedule of Works

(1) Tables 4.14.2 to 4.14.4 provide details of future trunk infrastructure for each network.

Table 4.14.2 Schedule of Works Water Supply Network

Map Ref	Item ID	Trunk Infrastructure Asset Description	Estimated year of Completion	Estimated Cost (\$)
		New booster pump - Old Cunningham Highway	2012	\$250,000
		Telemetry upgrades various locations Stage 1	2012	\$13,333
		Telemetry upgrades various locations Stage2	2014	\$13,333
		Duplicate clarifier Texas	2015	\$250,000
		Upgrade pressure filter Inglewood	2016	\$150,000
		Telemetry upgrades various locations Stage3	2016	\$13,333
		Telemetry upgrades various locations Stage4	2018	\$13,333
Total Estim	nated Cost			\$353,332

Table 4.14.3 Schedule of Works Sewerage Network

Map Ref	Item ID	Trunk Infrastructure Asset Description	Estimated year of Completion	Estimated Cost (\$)
		Telemetry upgrades various locations Stage 1	2012	\$13,333
		Telemetry upgrades various locations Stage 2	2014	\$13,333
		Telemetry upgrades various locations Stage 3	2016	\$13,333
		Telemetry upgrades various locations Stage 4	2018	\$13,333
Total Estimated Cost			\$53,332	

**Table 4.14.4 Schedule of Works Transport Network** 

Map Ref	Item ID	Trunk Infrastructure Asset Description	Estimated year of Completion	Estimated Cost (\$)
		Brook Street widen / extend sealed pavement	2014	\$220,000
		Riverton Road widen / extend pavement and seal Stage 1	2014	\$175,000
		Riverton Road widen <i>I</i> extend pavement and seal Stage2	2015	\$200,000
Total Estimated Cost			\$595,000	

- (1) The extrinsic material provides detailed background information relevant to the preparation of this priority infrastructure plan. Copies of this material are available for inspection and I or purchase.
  - (a) PIP-RICS calculator version 10

# 4.16 Plans for Trunk Infrastructure Maps

#### **Table 4.16.1 Priority Infrastructure Area Plans**

Map Ref	Drawing Title			
29PIA1	Priority Infrastructure Area – Town of Inglewood			
29PIA2	Priority Infrastructure Area – Town of Texas			

#### **Table 4.16.2 Existing Trunk Infrastructure and Service Catchment Plans**

Map Ref	Drawing Title		
29WAT1	Trunk Infrastructure Water Supply	Town of Goondiwindi	
29WAT2	Trunk Infrastructure Water Supply	Town of Texas	
29SEW1	Trunk Infrastructure Sewerage	Town of Goondiwindi	
29SEW2	Trunk Infrastructure Sewerage	Town of Texas	
29RDS1	Trunk Infrastructure Transport	Local Government Area Inglewood Shire	
29RDS2	Trunk Infrastructure Transport	Town of Goondiwindi	
29RDS3	Trunk Infrastructure Transport	Town of Texas	
29PKS1	Trunk Infrastructure Public Parks, and Land for Community Facilities	Local Government Area Inglewood Shire	
29PKS2	Trunk Infrastructure Public Parks, and Land for Community Facilities	Town of Goondiwindi	
29PKS3	Trunk Infrastructure Public Parks, and Land for Community Facilities	Town of Texas	

### 4.17.1 Introduction

(1) This priority infrastructure plan has been prepared in accordance with the requirements of the *Integrated Planning Act 1997*, pursuant to Section 779 of the *Sustainable Planning Act 2009*.

#### **4.17.2 Purpose**

- (1) The purpose of the priority infrastructure plan is:
  - (a) to integrate and coordinate land use planning and infrastructure planning;
  - (b) to ensure that trunk infrastructure is planned and provided in an efficient and orderly manner:
  - (c) to establish an infrastructure funding framework that is equitable and accountable.

## 4.17.3 Structure of Priority Infrastructure Plan

- (1) The priority infrastructure plan:
  - (a) identifies in Section 4.18 (application of priority infrastructure plan) how the priority infrastructure plan will be applied to development;
  - (b) states in Section 4.19 (planning assumptions) the projections of future urban growth and the assumptions of demand for each trunk infrastructure network, which have informed the preparation of the priority infrastructure plan;
  - (c) identifies in Section 4.20 (priority infrastructure area) the area which will accommodate future urban growth;
  - (d) states in Section 4.21 (desired standards of service) for each network of development infrastructure the desired standard of performance;
  - (e) identifies in Section 4.22 (plans for trunk infrastructure) the existing and planned trunk infrastructure for the following networks:
    - (i) water supply;
    - (ii) sewerage;
    - (iii) stormwater
    - (iv) transport;
    - (v) public parks and land for community facilities.

## 4.18 Application of the Priority Infrastructure Plan

## 4.18.1 Applying the Priority Infrastructure Plan to Development

- (1) The priority infrastructure plan states the basis for:
  - (a) the imposition of a condition on development requiring:
    - (i) the supply of necessary trunk infrastructure;
    - (ii) the payment of additional trunk infrastructure costs.
  - (b) the imposition by a state infrastructure provider of a condition:
    - (i) about protecting or maintaining the safety or efficiency of the provider's infrastructure network : or
    - (ii) for additional infrastructure costs; or
    - (iii) about protecting or maintaining the safety and efficiency of public passenger transport .

#### 4.18.2 Supply of Necessary Trunk Infrastructure

- (1) A condition may be imposed for the supply of necessary trunk infrastructure where:
  - existing trunk infrastructure necessary to service the premises is not adequate and trunk infrastructure adequate to service the premises is identified in the priority infrastructure plan; or
  - (b) trunk infrastructure to service the premises is necessary, but is not yet available and is identified in the priority infrastructure plan; or
  - (c) trunk infrastructure identified in the priority infrastructure plan is located on the premises.

#### 4.18.3 Payment of Additional Trunk Infrastructure Costs

- (1) A condition may be imposed requiring the payment of additional infrastructure costs where:
  - (a) the development:
    - (i) is inconsistent with the assumptions set out in Section 4.19; or
    - (ii) is located completely or partly outside the priority infrastructure area.

#### 4.18.3.1 Test for Inconsistency with Assumptions for Development Inside the PIA

- (1) Development is inconsistent with the assumptions if:
  - (a) the type of development was not anticipated to occur in that location based on the planning scheme land uses; or
  - (b) the development results in the total number of dwellings forecasted for the relevant priority infrastructure area (PIA) locality being exceeded in Table 4.19.1; or
  - (c) the development results in the total amount of non-residential Gross Floor Area (GFA) forecasted for the relevant planning infrastructure area (PIA) locality being exceeded in Table 4.19.2; or
  - (d) the timing of development is such that trunk infrastructure to service the premises is to be supplied earlier than anticipated in the priority infrastructure plan.

## 4.19 Planning Assumptions

## **4.19.1 Purpose**

- (1) The planning assumptions summarised in Tables 4.19.1 and 4.19.2 outline the projections of residential and non-residential development for the area to which the priority infrastructure plan applies.
- (2) The assumptions have been developed in accordance with the land use planning provisions of the planning scheme and the anticipated growth in population and employment within the area to which the PIP applies. They form a logical basis for the planning of the networks.
- (3) Further detailed background information concerning the planning assumptions is referenced in Section 4.23 (extrinsic material).

## 4.19.2 Population and Housing Projections

**Table 4.19.1 Population and Housing Projections** 

Area Dwelling Ty		Existing and Projected Population (persons)				Average Occupancy Rate (persons/dwelling)	Existing and Projected Dwellings			
		2006	2011	2016	2021	(persons ruwelling)	2006	2011	2016	2021
Inside PIA – Goondiwindi	Single Dwelling	1,741	1,815	1,894	1,972	2.33	748	779	813	847
Environs	Multiple Dwelling	45	47	49	51	2.00	22	23	24	25
	Other*	91	94	99	103	1.55	58	61	64	66
	Total	1,876	1,956	2,041	2,126	2.26	828	864	901	939
Inside PIA -	Single Dwelling	187	195	204	212	2.33	80	84	88	91
Yelarbon	Multiple Dwelling	5	5	5	5	2.00	2	3	3	3
	Other*	10	10	11	11	1.55	6	7	7	7
	Total	202	211	220	229	2.26	89	93	97	101
Inside PIA -	Single Dwelling	84	88	92	96	2.33	36	38	39	41
Talwood	Multiple Dwelling	2	2	2	2	2.00	1	1	1	1
	Other*	4	5	5	5	1.55	3	3	3	3
	Total	91	95	99	103	2.26	40	42	44	46
Inside PIA -	Single Dwelling	48	50	52	55	2.33	21	22	23	23
Toobeah	Multiple Dwelling	1	1	1	1	2.00	1	1	1	1
	Other*	3	3	3	3	1.55	2	2	2	2
	Total	52	54	57	59	2.26	23	24	25	26
	Single Dwelling	61	64	67	69	2.33	26	27	29	30
Inside PIA-	Multiple Dwelling	2	2	2	2	2.00	1	1	1	1
Bungunya	Other*	3	3	3	4	1.55	2	2	2	2



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	Total	66	69	72	75	2.26	29	30	32	33
	Single Dwelling	699	729	760	792	233	300	313	326	340
Outside PIA	Multiple <u>Dwelling</u> Other*	18 36	19 38	19 40	20 41	200 1.55	9 23	9 24	10 26	10 27
	Total	753	785	819	853	2.26	332	347	362	377
	Single Dwelling	2,821	2,941	3,069	3,196	233	1,211	1,263	1,318	1,373
Total Planning Scheme Area	Multiple Dwelling	72	75	79	82	2.00	36	38	39	41
Schollis Alled	Other* Total	147 3,040	153 3,170	160 3,307	166 3,444	1.55 2.26	95 1,342	99 1,400	103 1,460	107 1,521

<sup>\*</sup> Refers to dwellings such as aged care units and retirement units

Note: The PIP-RIGS calculator output (supplied by DIP) is based on the Urban Centre of Goondiwindi as defined by population density in Census Collection Districts (CDs) in 2006. These CDs include all of Goondiwindi Town and extends into Waggamba Shire.

The Planning Information and Forcasting Unit (PIFU) Office of Economic Statistical Research (OESR) Queensland Treasury supplied the following 2006 Estimated Residential Population (ERP) for:

- Goondiwindi Town Centre of 6003; and
- Goondiwindi Town LGA of 5031.

Therefore a PIP-RIGS calculator output based on the 2006 ERP for Goondiwindi Town LGA has been produced.

## 4.19.3 Employment and Non-residential Floor Space Projections

Table 4.19.2 Employment and Non-residential Floor Space Projections

Area	Dwelling Type	Existing and Projected Population (persons)				Average Occupancy Rate	Existing and Projected Dwellings			
		2006	2011	2016	2021	(persons / dwelling)	2006	2011	2016	2021
Inside PIA – Goondiwindi	Commercial	32	33	35	36	20	635	662	691	720
Environs	Retail	21	22	23	24	25	529	552	576	600
	Industry	62	65	67	70	110	6,809	7,100	7,409	7,715
	Community	31	32	34	35	NA	NA	NA	NA	NA
	Other*	0	0	0	0	NA	NA	NA	NA	NA
	Total	146	152	159	165	NA	7,974	8,314	8,676	9,035
Inside PIA -	Commercial	3	4	4	4	20	68	71	74	78
Yelarbon	Retail	2	2	2	3	25	57	59	62	65
	Industry	7	7	7	8	110	733	764	798	831
	Community	3	3	4	4	NA	NA	NA	NA	NA
	Other*	0	0	0	0	NA	NA	NA	NA	NA
	Total	16	16	17	18	NA	859	895	934	973
Inside PIA -	Commercial	2	2	2	2	20	31	32	34	35
Talwood	Retail	1	1	1	1	25	26	27	28	29
	Industry	3	3	3	3	110	330	344	359	374
	Community	2	2	2	2	NA	NA	NA	NA	NA
	Other*	0	0	0	0	NA	NA	NA	NA	NA
	Total	7	7	8	8	NA	387	403	421	438
Inside PIA -	Commercial	1	1	1	1	20	18	18	19	20
Toobeah	Retail	1	1	1	1	25	15	15	16	17
	Industry	2	2	2	2	110	189	197	205	214
	Community	1	1	1	1	NA	NA	NA	NA	NA

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CONTRACT PARTITION A						WAX S	Al-			
	Other*	0	0	0	0	NA	NA	NA	NA	NA
	Total	4	4	4	5	NA	221	230	240	250
	Commercial	1	1	1	1	20	22	23	24	25
Inside PIA-	Retail	1	1	1	1	25	19	19	20	21
Bungunya	Industry	2	2	2	2	110	240	250	261	271
	Community	1	1	1	1	NA	NA	NA	NA	NA
	Other*	0	0	0	0	NA	NA	NA	NA	NA
	Total	5	5	6	6	NA	281	293	305	318
	Commercial	0	0	0	0	20	0	0	0	0
Outside PIA	Retail Industry	0	0	0	0	25 110	0	0	0	0
	Community	0	0	0	0	NA	NA	NA	NA	NA
	Other*	676	705	736	766	NA	NA	NA	NA	NA
	Total	676	705	736	766	NA	0	0	0	0
	Commercial	39	40	42	44	20	775	808	843	878
Total Planning	Retail	26	27	28	29	25	645	673	702	731
Scheme Area	Industry Community	75 38	79 39	82 41	86 43	110 NA	8,301 NA	8,655 NA	9,032 NA	9,406 NA
	Other*	676	705	736	766	NA	NA	NA	NA	NA
	Total	854	890	929	968	NA	9,721	10,136	10,577	11,015

<sup>\*</sup> Other includes foo Uoose and rural employment

Note: The PIP-RICS calculator output (supplied by DIP)is based on the Urban Centre of Goondiwindi as defined by population density in Census Collection Districts (CDs) in 2006. These CDs include all of Goondiwindi Town and extends into Waggamba Shire.

The Planning Information and Forcasting Unit (PIFU) Office of Economic Statistical Research (OESR) Queensland Treasury supplied the following 2006 Estimated Residential Population (ERP) for:

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- Goondiwindi Town LGA of 5031.

Therefore a PIP-RICS calculator output based on the 2006 ERP for Goondiwindi Town LGA has been produced .

## 4.20 Priority Infrastructure Area

#### 4.20.1 Purpose

- (1) The priority infrastructure area (PIA) identifies the area where council plans to provide trunk infrastructure for urban development up to 2020.
- (2) The PIA is the area where suitable and adequate development infrastructure exists, or where it can be provided most efficiently.

### 4.20.2 The Priority Infrastructure Area

#### 4.20.2.1 Determination of the PIA

- (1) The PIA is determined by the extent of the existing infrastructure networks.
- (2) The boundary of the PIA is the area serviced by both the reticulated water supply system and the reticulated sewerage system.
- (3) Where there is no reticulated sewerage system, the boundary of the PIA is the area serviced by the reticulated water supply system.

#### 4.20.2.2 PIA Map

- (1) The PIA is shown on the following maps:
  - (a) Map Ref: 20PIA1 Priority Infrastructure Area Goondiwindi Environs
  - (b) Map Ref. 20PIA2 Priority Infrastructure Area Towns of Yelarbon and Talwood
  - (c) Map Ref. 20PIA3 Priority Infrastructure Area Towns of Toobeah and Bungunya and Bendidee Area

## 4.21 Desired Standards of Service

## 4.21.1 Water Supply Networks Desired Standards of Service

Measure	Planning Criteria (Qualitative Standards)	Design Criteria (Quantitative Standards)
Reliability/continuity of supply	All development receives a reliable supply of potable water with minimal interruptions to their service.	<ul> <li>Customer service standards</li> <li>Customer service obligations</li> </ul>
Adequacy of supply	All development is provided with a water supply that is adequate for the intended use.	<ul> <li>Water Service         Association of Australia         codes</li> <li>IPWEA standards</li> <li>Customer service         standards</li> </ul>
Quality of supply	Provide a uniform water quality in accordance with recognised standards that safeguards community health and is free from objectionable taste and odour.	The Australian Drinking     Water Guidelines     developed by the     National Health and     Medical Research     Council
Environmental impacts	The environmental impacts of the water supply network are minimised in accordance with community expectations.	Compliance with the requirements of the Environmental Protection Act 1994 and associated Environmental Protection Policies and the Water Act 2000
Pressure and leakage management	The water supply network is monitored and managed to maintain the reliability and adequacy of supply and to minimise environmental impacts.	<ul> <li>System Leakage         Management Plan         (Chapter 3, Part 3,         Division 1A Water Act         2000)     </li> </ul>
Infrastructure design / planning standards	Design of the water supply network will comply with established codes and standards.	Water Supply Code of Australia- Water Services Association of Australia-WSA 03-2002     The Australian Drinking Water Guidelines developed by the National Health and Medical Research Council     Planning Guidelines for Water Supply and Sewerage- Department of Natural Resources and Water (NRW)

## 4.21.2 Sewerage Network Desired Standards of Service

Measure	Planning Criteria (Qualitative Standards)	Design Criteria (Quantitative Standards)
Reliability	All development has access to a reliable sewerage collection, conveyance, treatment and disposal system.	<ul><li>Customer service standards</li><li>Customer service obligations</li></ul>
Quality of treatment	Ensures the health of the community and the safe and appropriate level of treatment and disposal of treated effluent.	<ul> <li>Local water quality guidelines prepared in accordance with the National Water Quality Management Strategy</li> <li>Queensland Water Quality Guidelines 2006-Environmental Protection Agency (where local guidelines do not exist)</li> <li>National Water Quality Guidelines-National Water Quality Management Strategy (where local or regional guidelines do not exist)</li> </ul>
Environmental impacts	The environmental impacts of the sewerage network are minimised in accordance with community expectations.	Compliance with the requirements of the Environmental Protection Act 1994 and associated Environmental Protection policies
Effluent re-use	Reuse effluent wherever possible.	<ul> <li>Guidelines for Sewerage Systems: Reclaimed Water -February 2000</li> <li>Queensland Water Recycling Guidelines- December 2005</li> </ul>
Infrastructure design / planning standards	Design of the sewerage network will comply with established codes and standards.	<ul> <li>Planning Guidelines for Water Supply and Sewerage-NRW</li> <li>Sewerage Code of Australia- Water Services Association of Australia-WSA 02- 2002</li> <li>Sewerage Pumping Station Code of Australia- Water Services Association of Australia- WSA 04-2005</li> </ul>

## 4.21.3 Stormwater Network Desired Standards of Service

Measure	Planning Criteria	Design Criteria
Quantity	(Qualitative Standards)  Collect and convey stom,water in natural and engineered channels, a piped, drainage network and system of overland flow paths to a lawful point of discharge, in a safe manner that minimises the inundation of habitable rooms and protects life.	Quantitative Standards)     Queensland Urban     Drainage  Manual—NRW
Quality	The water quality of urban catchments and waterways is managed to protect and enhance environmental values and pose no health risk to the community.	Local water quality guidelines prepared in accordance with the National Water Quality Management Strategy     Queensland Water Quality Guidelines 2006- Environmental Protection Agency (EPA) (where local guidelines do not exist)     National Water Quality Guidelines-National Water Quality Management Strategy (where local or regional guidelines do not exist)
Environmental impacts	Adopt water-sensitive urban design principles and on-site water quality management to achieve EPA water quality objectives.	Section 42 Environmental Protection [Water] Policy 1997
Infrastructure design / planning standards	Design of the stormwater network will comply with established codes and standards.	<ul> <li>Queensland Urban         Drainage Manual—NRW     </li> <li>Natural Channel Design         Guidelines     </li> </ul>

## 4.21.4 Transport Network Desired Standards of Service

Measure	Planning Criteria (Qualitative Standards)	Design Criteria (Quantitative Standards)
Road network design / planning standards	The road network provides a functional urban and rural hierarchy that supports settlement patterns, commercial and economic activities, and freight movement.  Design of the road system will comply with established codes and standards.	<ul> <li>Road Planning and         Design Manual         developed by the         Department of Transport         and Main Roads</li> <li>Australian Standards</li> <li>AUSTROADS guides</li> </ul>
Public transport design <i>I</i> planning standards	New urban development is designed to achieve safe and convenient walking distance to existing or potential bus stops, or existing or proposed demandresponsive public transport routes.	<ul> <li>Design accords with the performance criteria set by Department of Transport and Main Roads</li> <li>AUSTROADS guides for road- based public transport and high-occupancy vehicles</li> </ul>
Cycleway and pathway design <i>I</i> planning standards	Cycle ways and pathways provide a safe and convenient network that encourages walking and cycling as acceptable alternatives.  Design of the network will comply with established codes and standards.	<ul> <li>Australian Standards</li> <li>AUSTROADS Guide to Traffic Engineering Practice-Part 14 (Chapter 10)</li> <li>Queensland Streets Manual</li> </ul>

# 4.21.5 Public Parks and Land for Community Facilities Network Desired Standards of Service

Measure	Planning Criteria (Qualitative Standards)	Design Criteria (Quantitative Standards)
Functional network	A network of parks and community land is established to provide for the full range of recreational and sporting activities and pursuits.	<ul> <li>Parks and community land is provided at a local, district and LGA-wide level</li> <li>Parks and community land addresses the needs of both recreation and sport</li> </ul>
Accessibility	Public parks will be located to ensure adequate pedestrian, cycle and vehicle access.	<ul> <li>No quantitative standards are prescribed</li> </ul>
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.	No quantitative standards are prescribed
Facilities / embellishments	Public parks contain a range of embellishments to complement the type and purpose of the park.	<ul> <li>No quantitative standards are prescribed</li> </ul>
Infrastructure design <i>I</i> performance standards	Maximise opportunities to colocate recreational parks in proximity to other community infrastructure, transport hubs and valued environmental and cultural assets.	Australian Standards

## 4.22 Plans for Trunk Infrastructure

## **4.22.1 Purpose**

(1) The plans for trunk infrastructure (PFTI) identify the existing and proposed trunk infrastructure networks intended to service urban development.

## 4.22.2 Trunk Infrastructure Networks, Systems and Items

(1) Table 4.22.1 defines the trunk infrastructure networks, systems and items covered by the priority infrastructure plan.

Table 4.22.1 Trunk Infrastructure Networks, Systems and Items

Network	System	Elements
Water Supply	Bulk supply  Distribution	<ul> <li>Water treatment and recycling facilities</li> <li>Water sources including dams, bores, desalination facilities</li> <li>Pump stations</li> <li>Telemetry systems</li> <li>Reservoirs and other storage facilities</li> <li>Pump Station</li> <li>Trunk mains and associated fittings</li> </ul>
Sewerage	Reticulation	Fire fighting devices     Telemetry systems     Pump stations
		<ul> <li>Trunk mains and associated fittings</li> <li>Manholes</li> <li>Telemetry systems</li> </ul>
	Sewerage treatment	<ul><li>Sewerage treatment facility</li><li>Sewer release systems</li><li>Telemetry systems</li></ul>
Stormwater	Quantity	<ul> <li>Piped drainage (including pipes, box culverts, manholes, inlets and outlets)</li> <li>Detention and retention facilities</li> <li>Overland flow paths/channels (natural and constructed)</li> <li>Bank stabilisation, erosion protection and revegetation</li> </ul>
	Quality	• Nil
Transport	Local government and state controlled	<ul> <li>Arterial, intersections, local road drainage, kerb and channel, swales, culverts, bridges, roundabouts, traffic lights, lighting, signage, on- road cycle lanes, pathways basic verge revegetation including shade trees, turf and local drainage within the road reserve</li> </ul>
	Public transport	Bus stops, signs and shelters
	Off-road pathways	<ul> <li>Cycleways and pedestrian pathways no within the road reserve, including associated culverts, bridges, lighting, directional and information signage and surface marking</li> </ul>
Public Parks.	Public parks	<ul> <li>Land, works and embellishments for local, district and local government-wide parks</li> </ul>

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		<ul> <li>Parks for formal and informal recreation and sporting purposes</li> <li>Park embellishments including public amenities, shade structures, playgrounds including soft fall and safety fencing, bollards, dog off- leash areas, retaining walls, access roads and on-site car parks, footpaths and cycle ways, lighting, drink bubblers and taps, picnic tables, line marking, turf and irrigation (of sporting fields), barbeques, skate bowl, boat ramps and fishing platforms built by council and open to the public, sporting facilities including goal posts, soccer nets, netball posts, half-courts and basic spectator seating, bike racks, signage and provision of services (e.g. water, power)</li> <li>Land contributed in lieu of payment of infrastructure charges</li> </ul>
Land for facilities	r community	<ul> <li>Land and basic works associated with the clearing of land and connection to services</li> <li>Land only for community facilities which allow public access, not restricted by membership, for purposes such as youth centres, senior citizens centre I meeting halls, council chambers, neighbourhood centres, meeting halls libraries, performing arts centres, museums art galleries, community centres and swimming pools</li> </ul>

#### 4.22.3 Plans for Trunk Infrastructure

- (1) Plans identifying the existing and future trunk infrastructure for each infrastructure network are shown on the following maps:
  - (a) Water Supply:
    - (i) Map Ref: 20WAT1 Trunk Infrastructure Water Supply Goondiwindi Environs
    - (ii) Map Ref. 20WAT2 Trunk Infrastructure Water Supply Towns of Yelarbon and Talwood
    - (iii) Map Ref. 20WAT3 Trunk Infrastructure Water Supply Towns of Toobeah and Bungunya and Bendidee Area
  - (b) Sewerage:
    - (i) Map Ref: 20SEW1 Trunk Infrastructure Sewerage Goondiwindi Environs
    - (ii) Map Ref: 20SEW2 Trunk Infrastructure Sewerage Towns of Yelarbon and Talwood
  - (c) Stormwater
    - (i) Map Ref: 20STW1 Trunk Infrastructure Water Supply Goondiwindi Environs
    - (ii) Map Ref. 20STW2 Trunk Infrastructure Water Supply Towns of Yelarbon and Talwood
    - (iii) Map Ref. 20STW3 Trunk Infrastructure Water Supply Towns of Toobeah and Bungunya and Bendidee Area
  - (d) Transport:

- (i) Map Ref: 20RDS1 Trunk Infrastructure Transport Local Government Area Waggamba Shire
- (ii) Map Ref: 20RDS2 Trunk Infrastructure Transport Goondiwindi Environs
- (iii) Map Ref: 20RDS3 Trunk Infrastructure Transport Towns of Yelarbon and Talwood
- (iv) Map Ref. 20RDS4 Trunk Infrastructure Transport Towns of Toobeah and Bungunya and Bendidee Area
- (e) Public Parks and Land for Community Facilities:
  - (i) Map Ref: 20PKS1 Trunk Infrastructure Public Parks and Land for Community Facilities Local Government Area Waggamba Shire
  - (ii) Map Ref: 20PKS2 Trunk Infrastructure Public Parks and Land for Community Facilities Goondiwindi Environs
  - (iii) Map Ref: 20PKS3 Trunk Infrastructure Public Parks and Land for Community Facilities Towns of Yelarbon and Talwood
  - (iv) Map Ref: 20PKS3 Trunk Infrastructure Public Parks and Land for Community Facilities Towns of Toobeah and Bungunya and Bendidee Area

#### 4.22.4 Schedule of Works

(1) Tables 4.22.2 to 4.22.4 provide details of future trunk infrastructure for each network.

**Table 4.22.2 Schedule of Works Water Supply Network** 

Map Ref	Item ID	Trunk Infrastructure Asset Description	Estimated year of Completion	Estimated Cost (\$)
		Telemetry upgrades various locations Stage 1	2012	\$13,333
		Telemetry upgrades various locations Stage2	2014	\$13,333
		Telemetry upgrades various locations Stage3	2016	\$13,333
		Telemetry upgrades various locations Stage4	2018	\$13,333
Total Estin	nated Cost	- -		\$53,332

Table 4.22.3 Schedule of Works Sewerage Network

Map Ref	Item ID	Trunk Infrastructure Asset Description	Estimated year of Completion	Estimated Cost (\$)
		Telemetry upgrades various locations Stage 1	2012	\$13,333
		Telemetry upgrades various locations Stage 2	2014	\$13,333
		Telemetry upgrades various locations Stage 3	2016	\$13,333
		Telemetry upgrades various locations Stage 4	2018	\$13,333
Total Estimated Cost			\$53,332	

Table 4.22.4 Schedule of Works Transport Network

Map Ref	Item ID	Trunk Infrastructure Asset Description	Estimated year of Completion	Estimated Cost (\$)
		Kioma Road widen extend pavement & seal Stage 1 (00 – 5km)	2012	\$500,000
		Minnel Road upgrade Yarrilwanna Creek crossing part	2012	\$120,000
		Kioma Road widen extend	2013	\$500,000

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	pavement & seal Stage 2 (5 –		
	10km) Minnel Road upgrade Yarrilwanna Creek crossing part	2013	\$450,000
	Talwood Mungindi Road widen / extend sealed pavement Stage 1	2013	\$350,000
	Kioma Road widen extend pavement & seal Stage 3 (10 – 15km)	2014	\$500,000
	Kioma Road widen extend pavement & seal Stage 4 (15 – 21.4km)	2015	\$650,000
	Talwood Mungindi Road widen <i>I</i> extend sealed pavement Stage2	2015	\$400,000
	Polo Road widen pavement & seal 3.0km - 3.9km	2017	\$200,000
	Talwood Mungindi Road widen <i>I</i> extend sealed pavement Stage3	2017	\$400,000
	Hungerford Street widen / extend sealed pavement	2018	\$300,000
	Kioma Road widen extend pavement & seal Stage 5 (53.2 – 48km)	2018	\$500,000
	Kioma Road widen extend pavement & seal Stage 6 (48 – 43km)	2019	\$500,000
	Polo Road widen / extend pavement & seal 2.7km - 3.0km	2019	\$80,000
	Talwood Mungindi Road widen <i>I</i> extend sealed pavement Stage4	2019	\$400,000
	Kioma Road widen extend pavement & seal Stage 7 (43 – 38km)	2020	\$500,000
Total Estimated Cost			\$6,350,000

- (1) The extrinsic material provides detailed background information relevant to the preparation of this priority infrastructure plan. Copies of this material are available for inspection and/or purchase.
  - (a) PIP-RICS calculator version 10

# 4.24 Plans for Trunk Infrastructure Maps

## **Table 4.24.1 Priority Infrastructure Area Plans**

Map Ref	Drawing Title
20PIA1	Priority Infrastructure Area – Goondiwindi Environs
20PIA2	Priority Infrastructure Area – Towns of Yelarbon and Talwood
20PIA3	Priority Infrastructure Area – Towns of Toobeah and Bungunya and Bendidee Area

#### **Table 4.24.2 Existing Trunk Infrastructure and Service Catchment Plans**

Map Ref	Drawing Title		
20WAT1	Trunk Infrastructure Water Supply	Goondiwindi Environs	
20WAT2	Trunk Infrastructure Water Supply	Towns of Yelarbon and Talwood	
20WAT3	Trunk Infrastructure Water Supply	Towns of Toobeah and Bungunya and Bendidee Area	
20SEW1	Trunk Infrastructure Sewerage	Goondiwindi Environs	
20SEW2	Trunk Infrastructure Sewerage	Towns of Yelarbon and Talwood	
20STW1	Trunk Infrastructure Stormwater	Goondiwindi Environs	
20STW2	Trunk Infrastructure Stormwater	Towns of Yelarbon and Talwood	
20STW3	Trunk Infrastructure Stormwater	Towns of Toobeah and Bungunya and Bendidee Area	
20RDS1	Trunk Infrastructure Transport	Local Government Area Waggamba Shire	
20RDS2	Trunk Infrastructure Transport	Goondiwindi Environs	
20RDS3	Trunk Infrastructure Transport	Towns of Yelarbon and Talwood	
20RDS4	Trunk Infrastructure Transport	Towns of Toobeah and Bungunya and Bendidee Area	
20PKS1	Trunk Infrastructure Public Parks, and Land for Community Facilities	Local Government Area Waggamba Shire	
20PKS2	Trunk Infrastructure Public Parks, and Land for Community Facilities	Goondiwindi Environs	
20PKS3	Trunk Infrastructure Public Parks, and Land for Community Facilities	Towns of Yelarbon and Talwood	
20PKS3	Trunk Infrastructure Public Parks, and Land for Community Facilities	Towns of Toobeah and Bungunya and Bendidee Area	