

## PART 4 - PLANS FOR TRUNK INFRASTRUCTURE (PFTI)

Development infrastructure can be divided into two categories: trunk infrastructure and non-trunk infrastructure. Trunk infrastructure is the 'higher order' or 'shared' development infrastructure required to ensure the healthy and safe functioning of the uses it is servicing.

Trunk infrastructure's primary purpose is to service catchment areas with a large number of users, rather than providing connections to individuals or small groups of users.

In compliance with the IPA, the Trunk Infrastructure is the development infrastructure identified in this PIP.

The plans for trunk infrastructure identify the trunk infrastructure networks that exist in the local area and also the networks proposed to service the assumed development at the desired standards of service stated in the PIP. These may be new networks or augmentations of the existing networks and are not limited in scope solely to service catchments within the priority infrastructure area boundary or the 10 to 15 year development growth horizon.

IPA section 2.1.24 clarifies that intentions stated in the plan do not create an obligation to supply the infrastructure or that any right exists to expect or demand the standard of service stated.

Projects listed in the planning horizon may change to better reflect the emerging needs of the region. The indicative delivery timeframe outlines the estimated timeframe for completion of projects however, project planning or commencement may occur before or after this timeframe.

Under the Water Reform implemented by the State Government, Water Supply and Sewerage infrastructure networks are no longer provided by Council whereby responsibility has been given to Unitywater.

The plans for trunk infrastructure (PFTI) are provided for the following trunk infrastructure networks:

### 4.1 Water Supply

Plans showing the existing and future trunk infrastructure for the water supply network are shown on:

- Maps 4.1 - PFTI - Water Supply (*Unitywater*)

The infrastructure items or elements that make up these networks are described in:

- Table 4.1 - PFTI – Water Supply (*Unitywater*)

The following Infrastructure items contained in Table 4.1 and shown on Maps 4.1 are deemed to be trunk infrastructure for the purpose of planning and funding of the trunk water supply network:-

- a) Pumping stations and trunk mains to transport the treated water to distribution or storage reservoirs or elevated tanks;
- b) Distribution or non-regional storage reservoirs and elevated tanks;
- c) Chlorination and re-chlorination equipment;
- d) Trunk delivery and distribution infrastructure, generally 200mm diameter mains and larger, except where smaller size mains are the principal network component for transport of

water from source of supply to distribution or storage reservoirs, and/or from storage reservoirs to the reticulation system;

- e) Local control and monitoring systems;
- f) Bulk water meters, pressure and flow control valves as well as the telemetry/SCADA systems which provide system monitoring and/or control.

#### Specific Exclusions

The water supply trunk infrastructure items included are restricted to the distribution network components only. Water treatment plants are neither owned nor operated by Unitywater. Treated water from these facilities is supplied to Unitywater under a Bulk Supply Agreement, hence these facilities have been excluded from infrastructure charge calculations on the grounds that establishment costs are recovered by the current owner/operator through the water tariff detailed in the Bulk Supply Agreement.

The Asset Schedule for all individual items of existing Trunk Water Supply Infrastructure, as well as the Capital Works Program showing all planned Trunk Water Supply Infrastructure projects is available through Unitywater.

## **4.2 Sewerage**

Plans showing the existing and future trunk infrastructure for the sewerage network are shown on:

- Maps 4.2 - PFTI – Sewerage (*Unitywater*)

The infrastructure items or elements that make up these networks are described in:

- Table 4.2 - PFTI – Sewerage (*Unitywater*)

The regional and local Infrastructure items contained in Table 4.2 and shown on Maps 4.2 are deemed to be trunk infrastructure for the purpose of planning and funding of the sewerage infrastructure network including:

- a) Infrastructure for treatment in the form of:-
  - i. sewage treatment plants (STPs), including mechanical, electrical and control equipment;
  - ii. advanced water treatment plants;
  - iii. flow measurement and telemetry/SCADA systems providing system monitoring and/or control.
- b) Infrastructure for collection and transport in the form of:-
  - i. gravity sewers, generally 225mm and larger, except where smaller size sewers provide network connectivity from rising mains;
  - ii. pumping stations and associated rising mains, which transport the sewage to a treatment plant or other pump station, except where those pump stations are not owned by Unitywater; and emergency storage for pumping stations.

The Asset Schedule for all individual items of existing Trunk Sewerage Infrastructure, as well as the Capital Works Program showing all planned Trunk Sewerage Infrastructure is available through Unitywater.

## 4.3 Transport

The Transport Networks have been sub-categorised into distinct use functions consisting of Road, Public Transport and Pathway Networks.

Although the PFTI has been developed to align with the uses applicable to each of these sub-categorised networks, the overall aim is to provide an integrated transport network/system encompassing all modes of transport to meet the objectives of The Noosa Community Transport Strategy and Noosa Integrated Local Transport Plan.

The defined transport systems are intended to progressively improve personal mobility within the shire. This will be achieved through appropriate integration of land use and transport systems, to achieve an effective road network and parking systems, closely integrated with public transport, bicycle and pedestrian systems.

### 4.3.1 Road Network

The road network has been sub-categorised into 2 distinct networks consisting of a Coastal Area Network and a Rural Network.

Plans showing the existing and future trunk infrastructure for the road networks are shown on:

- Maps 4.3.1 - PFTI - Roads

The infrastructure items or elements that make up these networks are described in:

- Table 4.3.1 - PFTI - Roads

### 4.3.2 Public Transport Network

Plans showing the existing and future trunk infrastructure for the public transport network are shown on:

- Maps 4.3.2 - PFTI - Public Transport

The infrastructure items or elements that make up these networks are described in:

- Table 4.3.2 - PFTI - Public Transport

### 4.3.3 Pathway Network

The pathway network has been sub-categorised into 4 distinct networks consisting of a P1 - Coastal Area to Lake Cooroibah Network, P2 - Cooran Network, P3 - Pomona Network and P4 - Cooroy to Lake Macdonald Network.

Plans showing the existing and future trunk infrastructure for the pathway networks are shown on:

- Maps 4.3.3 - PFTI - Pathways

The infrastructure items or elements that make up these networks are described in:

- Table 4.3.3 - PFTI – Pathways

## 4.4 Stormwater Management

The Noosa Plan includes a number of provisions aimed at protecting native vegetation and revegetating as part of the development process. Much of the Shire is protected as vegetated open space either in public tenure like the National Parks, or in private tenure through conservation agreements. The Biodiversity Overlay is used to nominate private properties where the retention of vegetation and other conservation values is critical and will be considered as part of any development proposal. For instance the clearing of riparian vegetation along waterways is not appropriate and indeed further planting in riparian buffers may be necessary to protect bank stability but also to filter stormwater run-off. Further detailed code requirements within the planning scheme require earthwork and construction work to include measures, which prevent sediment from the site entering the stormwater system.

Plans showing the existing and future trunk infrastructure for the stormwater management networks are shown on:

- Maps 4.4 - PFTI - Stormwater Management

The infrastructure items or elements that make up these networks are described in:

- Table 4.4 - PFTI - Stormwater Management

#### **4.5 Public Parks and Community Land**

The Public Parks and Community Land Networks has been categorised into the use function for Sport & Recreation Parks and Facilities.

Land networks for other community purposes have not been included in this PIP.

Plans showing the existing and future trunk infrastructure for the sport & recreation parks and facilities network are shown on:

- Maps 4.5 - PFTI - Sport & Recreation Parks & Facilities

The infrastructure items or elements that make up these networks are described in:

- Table 4.5 - PFTI - Sport & Recreation Parks & Facilities