

Infrastructure Charging and Offsets Plan

Greater Flagstone Priority Development Area

This document sets out the infrastructure contributions that may be offset against the charges set out in the Infrastructure Funding Framework



October 2019



Queensland
Government

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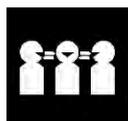


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Contents

1.0	Introduction	4
1.1	Infrastructure Funding Framework	4
1.1.1	Local charges	4
1.1.2	Value capture charge	4
1.1.3	Infrastructure funding framework crediting and offset arrangements	4
1.2	Economic Development Act 2012	5
1.3	Limitations.....	5
1.4	Greater Flagstone Priority Development Area.....	6
2.0	Greater Flagstone ICOP framework	7
2.1	Municipal charges	7
2.1.1	Water supply network	7
2.1.2	Sewerage network	8
2.1.3	Transport network.....	11
2.1.4	Parks and open space network.....	15
2.1.5	Local community facilities network	16
2.1.6	Catalyst infrastructure charge	16
2.1.7	Public transport charge	16
2.2	State charge	16
2.2.1	State schools	17
2.2.2	Emergency services and health facilities.....	17
2.2.3	Rail corridor land.....	18
2.3	Implementation charge.....	18
2.4	Sub-regional charge.....	18
2.4.1	Overview.....	18
2.4.2	Road infrastructure	18
2.4.3	Water supply.....	18
2.4.4	Sewerage	18
2.5	Value capture charge.....	18
3.0	Administration	18
3.1	Guidelines and practice notes.....	19
3.2	Alternative network layouts	19
3.3	Provision of land	19
3.4	Cross-crediting the municipal charge	19
3.5	Excluded assets.....	20
3.6	Indexation of costs	20
3.7	Review of charges and offsets	20
4.0	Abbreviations and definitions	20
5.0	Appendices	22
5.1	Detailed infrastructure network maps.....	22
5.2	Detailed infrastructure network cost schedules	23

1.0 Introduction

This document sets out the infrastructure contributions that may be offset against the Greater Flagstone Priority Development Area (PDA) charges as set out in the Infrastructure Funding Framework (IFF). The infrastructure items noted in this document are applicable to all development within the PDA.

1.1 Infrastructure Funding Framework

The Infrastructure Funding Framework (IFF) sets the infrastructure charge for each priority development area (PDA). Economic Development Queensland (EDQ) has applied the following infrastructure charges within the Greater Flagstone PDA:

- Local Charge
- Value Capture Charge.

1.1.1 Local charges

The **Local charge** consists of the following:

- **Municipal charge** – covers the trunk infrastructure typically contained within and providing service only to the PDA and includes infrastructure such as trunk roads, sewer, water supply, serviced land for municipal community facilities and parks and open space. The municipal infrastructure for the Greater Flagstone PDA funded through this charge are set out in Section 2.1 of this document. The municipal charge comprises the following:
 - **Catalyst infrastructure charge** - a component of the municipal charge used to facilitate the early construction of catalyst infrastructure for the PDA. This infrastructure will enable the early and more efficient delivery of development within the PDA. Where Queensland State Government loans are used to fund this infrastructure, they will be required to be repaid over a period of time.
 - **Public transport charge** – a component of the municipal charge used to facilitate early public transport that is safe and equitable for all members of the community.
 - **Balance municipal charge** – the municipal charge less the catalyst infrastructure charge and public transport charge.
- **State charge** – Covers the provision of serviced land for state community facilities. The offsets available in the Greater Flagstone PDA for infrastructure funded through this charge are set out in Section 2.1.6 of this document.
- **Implementation charge** – Covers employment, community development, ecological sustainability and innovation strategies and programs delivered as part of a development. The items funded through this charge for the Greater Flagstone PDA are set out in Section 2.3 of this document.
- **Sub-regional charge** – provides a contribution towards the sub-regional infrastructure required to service the PDA and provide necessary external connections to the wider infrastructure networks. The sub-regional infrastructure funded through this charge is identified on the sub-regional infrastructure maps in section 5.1 of this document.

1.1.2 Value capture charge

The **Value capture charge** assists in the delivery of sub-regional infrastructure and only applies to land that, prior to declaration of the PDA, was outside the urban footprint as identified in the South East Queensland Regional Plan 2009-2031.

1.1.3 Infrastructure funding framework crediting and offset arrangements

This document should be read in conjunction with the IFF and the Infrastructure Funding Framework, Crediting and Offset Arrangements document (IFFCOA). The IFFCOA sets out the process for crediting, offsetting and refunding infrastructure charges.

This Infrastructure Charging Offset Plan (ICOP) may change from time to time to identify EDQ's current planning for infrastructure in the PDA. Claims for offsets made under Appendix 2 of the IFFCOA will be assessed against the version of the ICOP in effect at the date of the claim.

1.2 Economic Development Act 2012

This document was prepared in accordance with Part 10 of the *Economic Development Act 2012*.

1.3 Limitations

This ICOP has been prepared by Economic Development Queensland (EDQ) for the Greater Flagstone Priority Development Area. EDQ does not and shall not assume any responsibility or liability for loss whatsoever to any third party arising out of any use or reliance by any third party on the content of this ICOP.

The ICOP must be read in full and no excerpts are to be taken as representative of the findings. Information contained in this ICOP should not be construed as appropriate for other purposes, other users or where conditions or rates have altered since the date of this ICOP.

The ICOP is a policy document which is intended to provide guidance to the MEDQ on infrastructure matters for a development application. However, the MEDQ can implement an alternative outcome where there are sufficient grounds to justify that alternative.

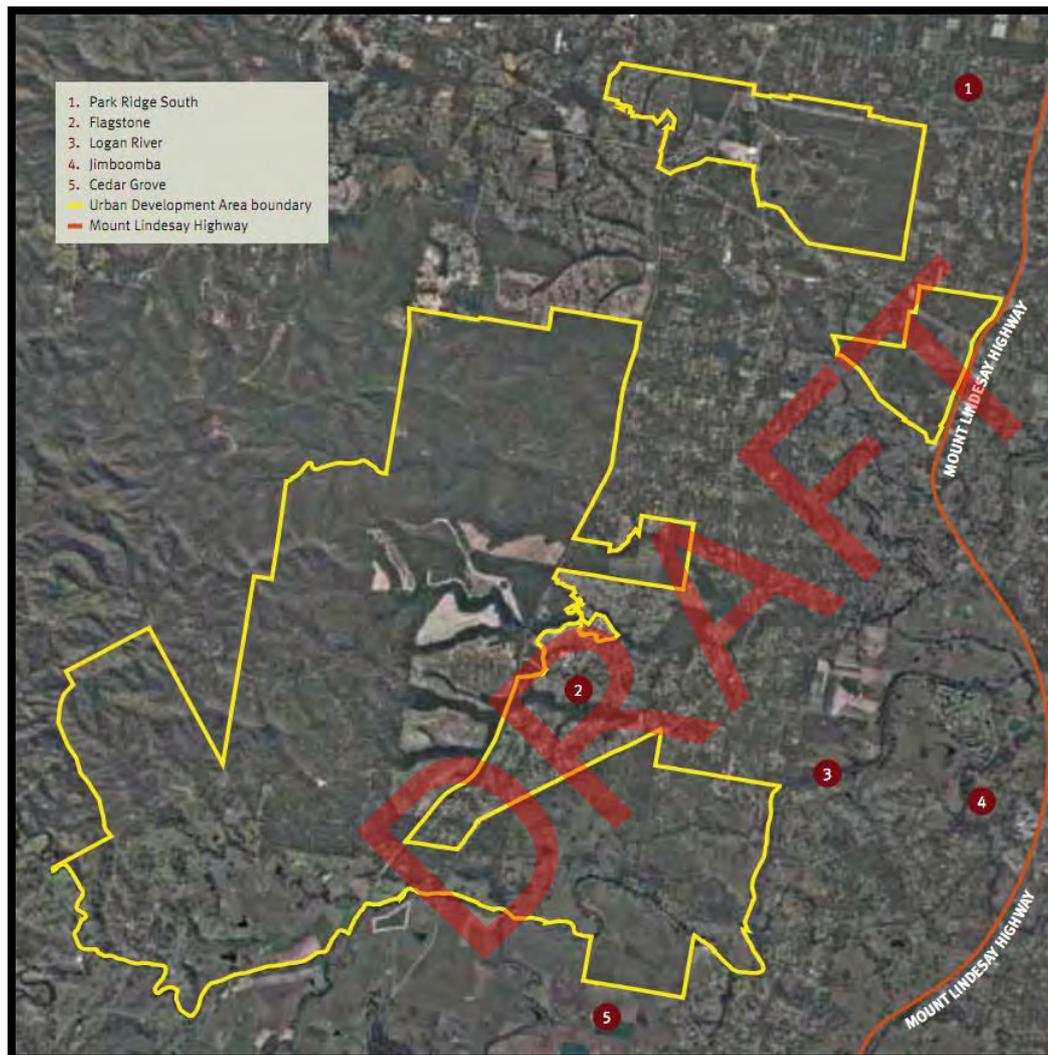
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1.4 Greater Flagstone Priority Development Area

The Greater Flagstone PDA was declared on 8 October 2010 and covers a total area of 7,188 hectares. It is located west of Jimboomba and the Mount Lindsay Highway, along the Brisbane-Sydney rail line. It is immediately north of the Bromelton State Development Area.

The Greater Flagstone PDA will provide approximately 50,000 dwellings to house a population of approximately 120,000 based on an average of 2.5 EP/dwelling, and to provide close to 150 hectares of non-residential floor space for future employment.

Figure 1 ICOP catchment area map



2.0 Greater Flagstone ICOP framework

2.1 Municipal charges

2.1.1 Water supply network

Infrastructure included within this plan

An offset is available for the design and construction of the trunk potable and non-potable water supply infrastructure servicing the PDA as identified on the water supply network maps contained within Section 5.1 of this plan, including:

- water supply mains with a minimum internal diameter of 225 millimetre and as shown on the attached water supply maps
- water supply reservoirs servicing multiple development catchments and greater than 2500 equivalent persons (EPs), where demonstrated to be cost-effective and in accordance with an EDQ endorsed strategy
- water pump stations servicing catchments greater than 2500 EPs
- ancillary items directly associated with the above
- associated survey and design costs
- excluding land as majority of network is to be located within road or park reserve, unless otherwise identified.

Works costs and land provision where identified can be offset against the municipal charge.

Approach to valuing infrastructure

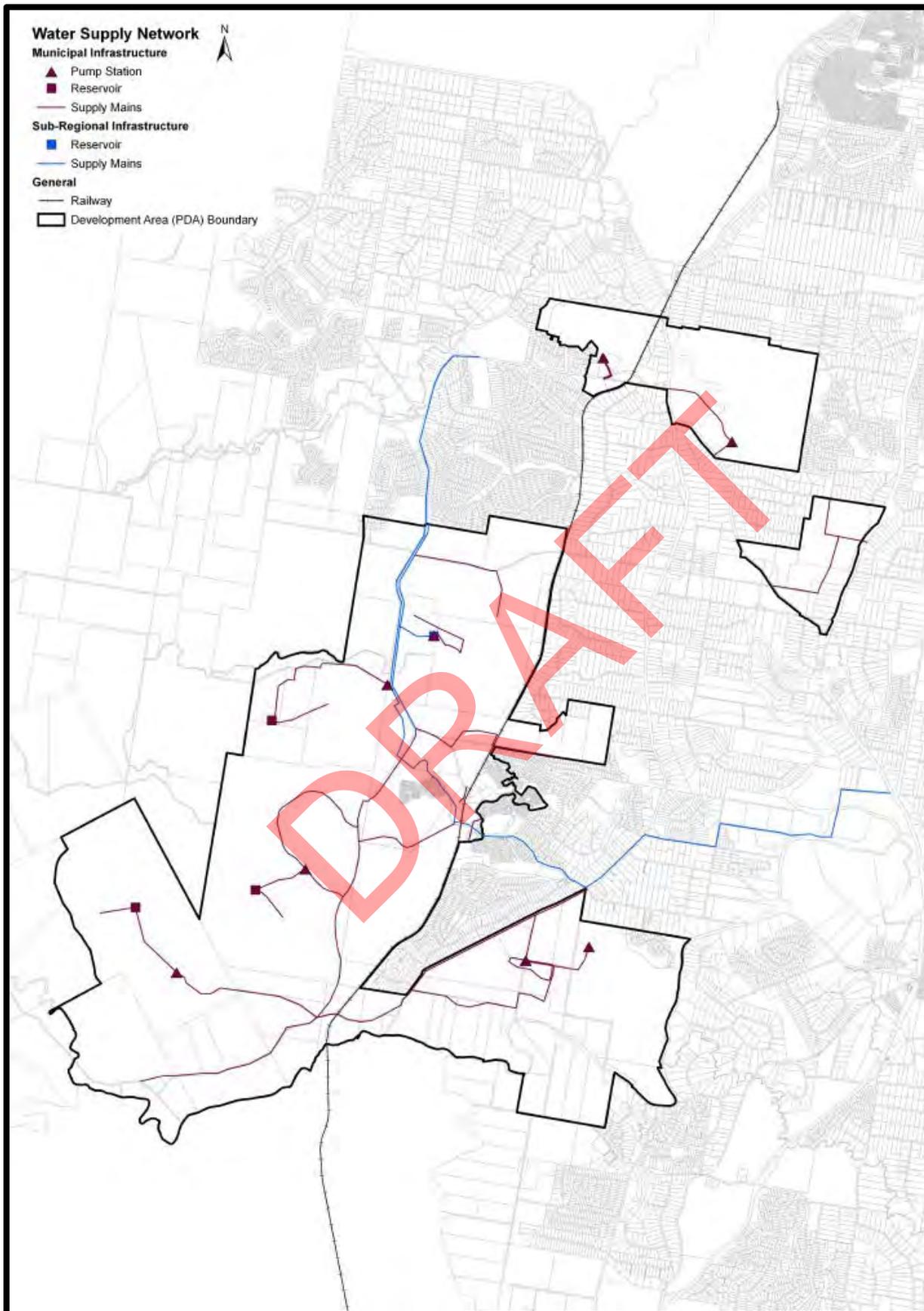
- All water supply (potable and recycled) mains have applied an adjustment factor of 1.3 to allow for potential trenching in rock or unsuitable material.
- Design and construction costs for potable water mains include all minor valves, connections and associated works.
- The potable and recycled water supply base rates presented in July 2018 dollars are:

Diameter (mm)	Rate \$/m	Diameter (mm)	Rate \$/m
250	\$300	450	\$544
300	\$388	525	\$668
375	\$482	600	\$719

- All other water supply infrastructure items have been based on project costs having regard to the size and extent of the planned works.
- Any costs associated with land are detailed in Section 3.3 – Provision of Land.

Figure 2 Water supply network overview map

2.1.2 Sewerage network



Infrastructure included within this plan

An offset is available for the design and construction of the trunk sewerage infrastructure servicing the PDA as identified on the sewerage network map contained within Section 5.1 of this plan, including:

- sewerage pump stations and associated rising mains servicing a catchment greater than 2500 EPs
- sewerage gravity mains with a minimum nominal diameter of 300 millimetre
- sewerage treatment plants servicing multiple development catchments and greater than 2500 EPs, demonstrated to be cost-effective in accordance with an EDQ endorsed strategy
- ancillary items directly associated with the above
- associated survey and design costs
- excluding land as majority of network is to be located within road or park reserve, unless otherwise identified.

Works costs can be offset against the municipal charge.

Approach to valuing infrastructure

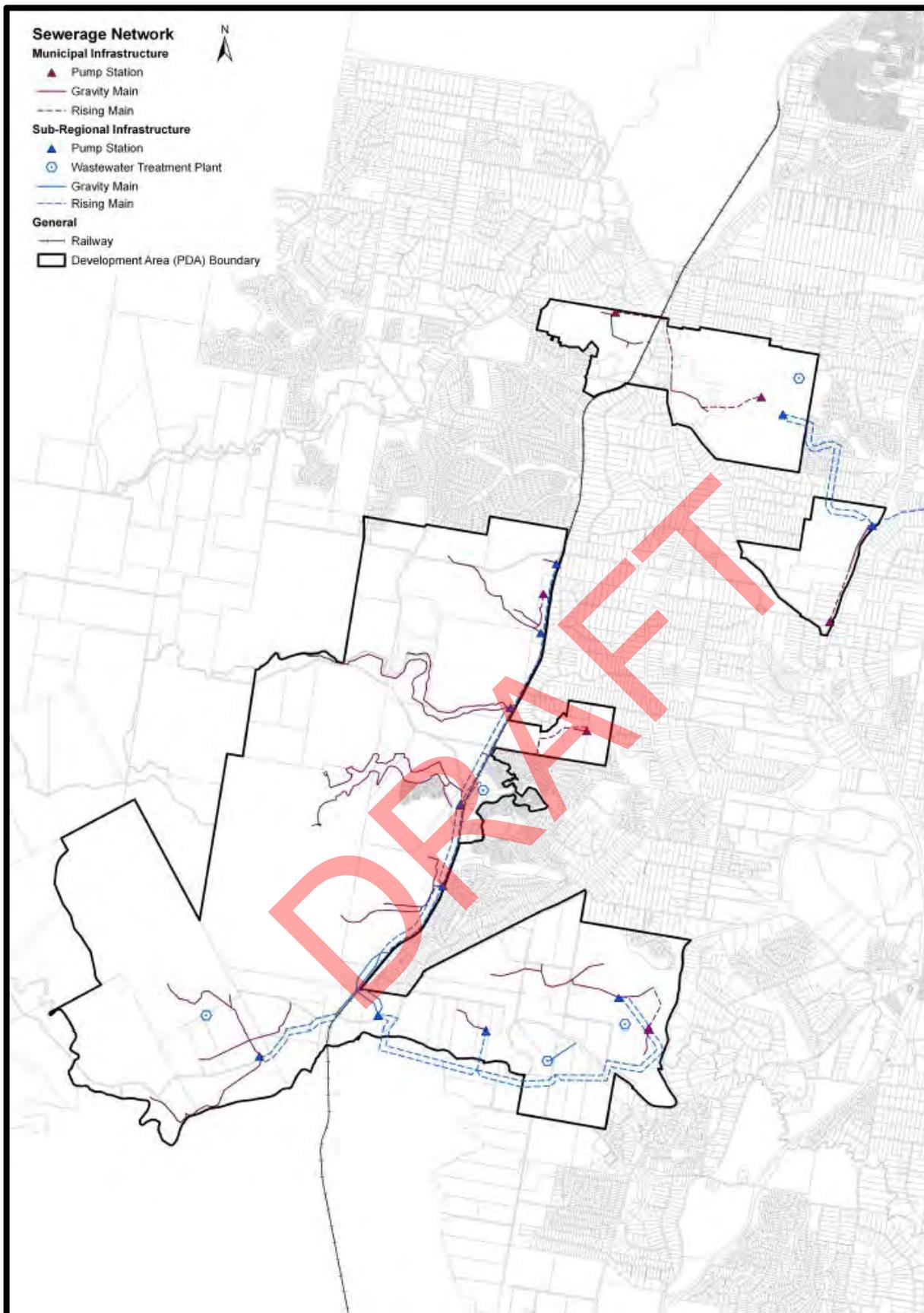
- All gravity mains and pump stations have applied an adjustment factor of 1.5 to allow for potential trenching in rock or unsuitable material.
- All rising (pressure) mains have applied an adjustment factor of 1.3 to allow for potential trenching in rock or unsuitable material.
- Sewer unit rates have been derived from a combination of current contract prices and local authority asset valuations. They assume a conventional tendering delivery process and a relatively unconstrained greenfield setting (unless stated otherwise).
- The sewer gravity and rising main base rates presented in July 2018 dollars are:

Sewer Gravity Mains	
Diameter (mm)	Rate \$/m
300	\$379
375	\$482
450	\$544
525	\$544

Sewer Rising Mains	
Diameter (mm)	Rate \$/m
200	\$186
225	\$211

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Figure 3 Sewerage network overview map



2.1.3 Transport network

2.1.3.1 Roads

Infrastructure included within this plan

An offset is available for the design and construction of the road infrastructure servicing the PDA as identified on the transport network – roads map contained within Section 5.1 of this plan, including:

- urban arterial and trunk connector roads which provide for major regional and inter-regional traffic movement
- trunk connector, centre connector and industrial connector roads as identified in EDQ Guideline 6 (Street and Movement Network), (including bus lanes and bus stops) which distribute traffic and bus services within the main residential areas and link traffic on local and neighbourhood roads to the urban arterial network (an offsetable trunk connector, centre connector or industrial connector road will generally service more than half of its daily traffic from outside a particular development catchment).

An offset is available for the following land provision costs on the following basis:

- where sufficient road reserve already exists – no provision of costs
- for new two-lane roads – as per the interim land requirements for the relevant road design
- for upgrading a two-lane road to a four or six-lane road – as per the additional land requirements for the relevant road design
- any costs to be provided for land is further detailed in Section 3.3 – Provision of Land.

The following considerations should be made when interpreting the road network contained within the ICOP:

- EDQ guidelines and practice notes detailing cross sections for municipal roads
- assumed acquisition required for all roads within the PDA at the widths stated in Guideline 6 or as determined by EDQ.

Land provision and works costs can be offset against the municipal charge.

Approach to valuing infrastructure

- Typical cross sections are shown in EDQ guidelines and practice notes.
- Base road rates include a bulk earthworks allowance (2 metre cut fill balance across the full road reserve width). A retaining wall allowance has been included in the road rate for the interim stage at the property boundary.
- No allowance for service relocations has been allowed for in base road rates, except where otherwise noted below.
- No allowance for overhead power diversion.
- Land for roads identified in the ICOP are to be valued in accordance with the rates identified in Section 3.3 – Provision of Land.

Construction costs of identified trunk infrastructure include the cost of:

- associated public transport provision where normally provided by council/Translink
- associated traffic control and management, stormwater drainage, and other similar works directly associated with the delivery of trunk road infrastructure
- construction (including but not limited to): bulk earthworks, sub-base, base course, asphaltic surfacing, kerb and channel, plain concrete footpaths/cycle ways, signage/line marking, street lighting, service conduits (excluding gas), silt management, drainage (gullies and pipes), swales, wintergreen turf, grass seeding, 4 x 45 litre trees @ 20 metre centres, traffic management devices and contractor facilities.

Excluding sacrificial interim works, which are not eligible for an offset, unless contributing to an interim ICOP identified infrastructure outcome or minimal transitional tie-ins with an existing road.

- The indicative road base rates presented in July 2018 dollars are identified below:

Description of Works		Rate \$/m
2 Lane (Interim) + cycle	2L(i)	\$3,826
2 Lane (Ultimate) with parking + cycle	2L	\$3,383
Additional 2 Lanes (Ultimate) + cycle	4L(u)	\$2,700
Additional 2 Lanes (Ultimate) + bus (or parking/cycle)	4LB(u)	\$3,141
4 Lane (ultimate) + cycle	4L	\$6,526

2.1.3.2 Road intersections

Infrastructure included within this plan

An offset is available for the design and construction of the road intersection infrastructure servicing the PDA as identified on the transport network – intersection map contained within Section 5.1 of this plan, including:

- trunk road to trunk road intersections identified on the intersections map
- roundabouts or minor lights at two-lane to two-lane trunk road intersections
- upgrades to traffic signals (staged) at intersections incorporating four-lane roads
- associated survey and design costs.

Unless specified, non-trunk road to trunk road intersections are not subject to offsets under the ICOP.

Land provision and works costs can be offset against the municipal charge.

Approach to valuing infrastructure

- Assumed works for roundabouts or minor lights is equivalent.
- The road intersection configuration base rates presented in July 2018 dollars are:

# Lanes on Intersecting Roads	Asset Type	Rate \$/item	# Lanes on Intersecting Roads	Asset Type	Rate \$/item
2/2	Roundabout	\$226,505	4/4/2	Lights - 1st Phase	\$1,415,657
2/2/2	Lights - 1st Phase	\$283,131	4/4/2	Lights - 2nd Phase	\$1,415,657
2/2/2	Roundabout	\$283,131	4/4/2/2	Lights - 1st Phase	\$1,698,789
2/2/2/2	Lights - 1st Phase	\$339,757	4/4/2/2	Lights - 2nd Phase	\$1,698,789
2/2/2/2	Roundabout	\$339,757	4/4/4	Lights - 1st Phase	\$1,698,789
4/2/2	Lights - 1st Phase	\$849,393	4/4/4	Lights - 2nd Phase	\$1,698,789
4/2/2	Lights - 2nd Phase	\$849,393	4/4/4/2	Lights - 2nd Phase	\$1,981,920
4/2/2/2	Lights - 1st Phase	\$1,132,526	4/4/4/4	Lights - 2nd Phase	\$2,831,315

2.1.3.3 Bridges and culverts

Infrastructure included within this plan

An offset is available for the design and construction of the bridge and culvert infrastructure servicing the PDA as identified on the transport network – bridges and culverts map contained within Section 5.1 of this plan, including:

- bridges and culverts identified on the bridges and culverts map
- for bridges - piers, abutments and standard pre-cast concrete decks and standard parapets, handrails and finishes (multi-span bridge decks are to have maximum single spans of 25 metre)
- for box culverts - gabion mattress aprons, headwalls and curtain walls)
- the provision of a 3 metre footpath / verge on one side for the interim construction and 3 metre footpaths / verges on both sides for the ultimate construction
- associated survey and design costs
- typical structure widths applied within the ICOP are as follows:

Road Type	Culvert width (m)	Road Type	Bridge width (m)
2L	20.5	2L	15
4L(u)	10	4L(u)	10
6L	7	6L	7

The following considerations should be made when interpreting the bridge and culvert infrastructure contained within the ICOP:

- All bridges and culverts on four lane roads are to be staged, corresponding to the road upgrade timing.
- Bridge and culvert spans estimated from site inspections, preliminary LIDAR and survey data for major overland flow paths.

Land provision and works costs can be offset against the municipal charge.

Approach to valuing infrastructure

- Construction costs have been prepared to the limits specified in the Department of Transport and Main Roads standards.
- Bridge costs are calculated based on the required deck area at a rate of \$4149/m² of deck area.
- Culverts costs are calculated based on the required deck area at a rate of \$2269/m² of deck area.
- Bridges spanning the railway line reflect costs of recently delivered bridge assets.

2.1.3.4 Off-road shared paths

Infrastructure included within this plan

An offset is available for the design and construction of the off-road shared path infrastructure servicing the PDA as identified on the transport network – off-road shared paths map contained within Section 5.1 of this plan, including:

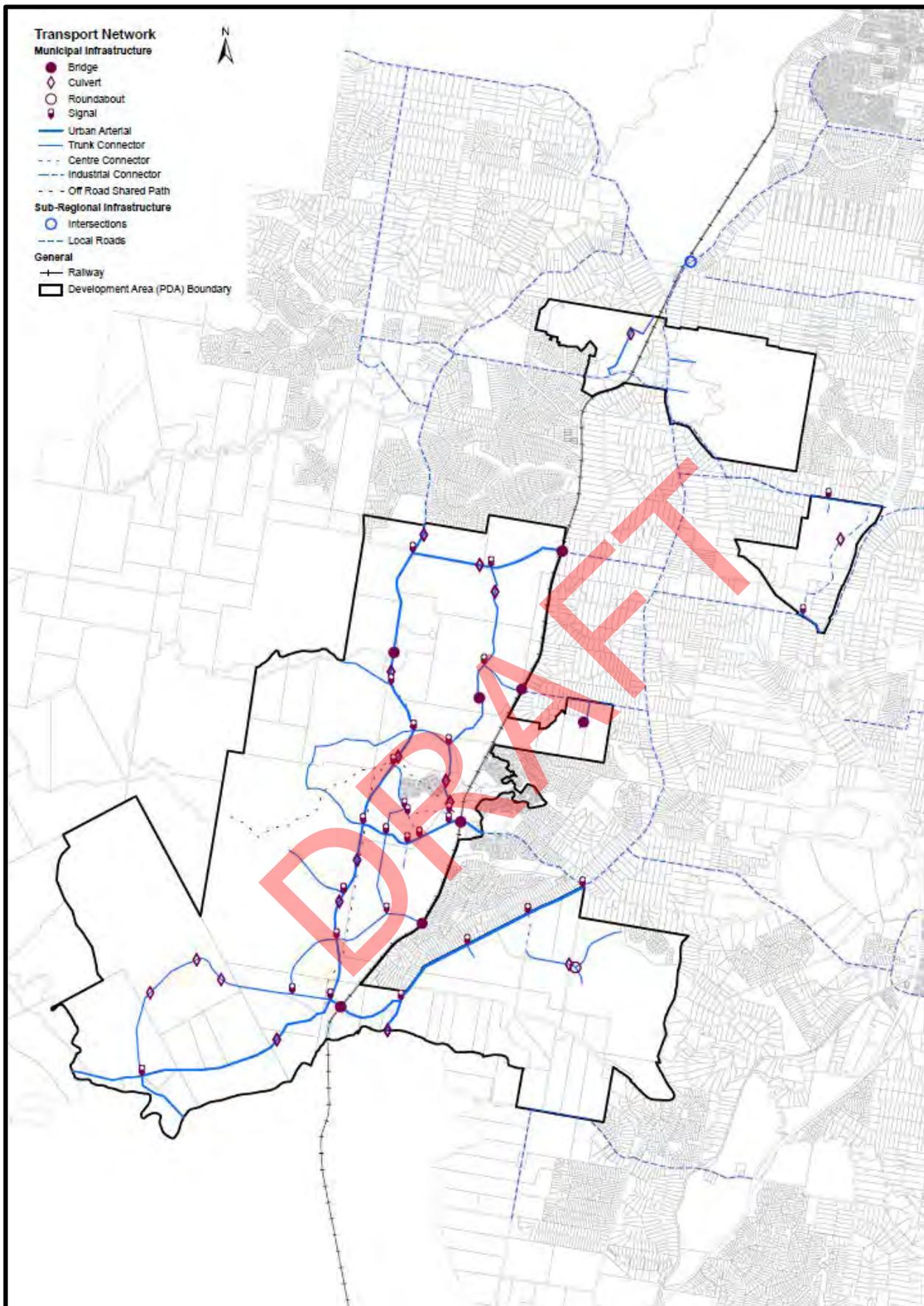
- regional shared paths
- shared paths within identified trunk road reserve where they form part of an approved infrastructure master plan
- constructed in a plain concrete finish
- allowances for earthworks and drainage, associated lighting, culverts, bridges, street furniture and surface marking, where required for the construction of the off-road shared path.

Land provision and works costs can be offset against the municipal charge.

Approach to valuing infrastructure

- Regional off-road shared paths assumed at width of 4 metre and applied at a rate of \$605/m, with an assumed 6 metre wide land reserve.

Figure 4 Transport network overview map



2.1.4 Parks and open space network

Infrastructure included within this plan

An offset is available for the provision of serviced land for parks and open space infrastructure servicing the PDA as identified on the parks and open space network – parks and open space map contained within Section 5.1 of this plan, including:

- land for parks and open space provided 'generally-in-accordance' with the attached parks and open space map and limits set out in Appendix 1 Table 2 in EDQ's IFFCOA
- works within parks and open space provided 'generally-in-accordance' with the requirements contained in EDQ Guideline No. 12: Park Planning and Design, serviced with:
 - road frontage suitable for the site purposes
 - earthworks and grassing suitable for the site purposes
 - service connections including potable water, non-potable water when adjacent to a supply system, sewerage, electricity, and excluding gas
 - embellishments in accordance with the EDQ Guidelines and including an establishment period cost (up to a maximum of 26 weeks)
- linear parks may be established adjacent to or through higher level parks where sports and district parks are mapped extending to the creek.

The following considerations should be made when interpreting the parks and open space infrastructure contained within the ICOP:

- Costs associated with land stabilisation, retaining structures and drainage works below Q5 within waterway corridors are not eligible for an offset against infrastructure charges.
- Maintenance costs during the on-maintenance period are not eligible for an offset against infrastructure charges.
- Offsets for any land associated with local linear parks are limited to a maximum width corridor of 15metre.
- Offsets for any land associated with major linear parks are limited to a maximum width corridor of 30metre (provision of land to a maximum width corridor of 15 metre either side of the greenspace corridor).
- Local recreation parks provided within the Greater Flagstone PDA are not eligible for an offset against infrastructure charges.

Land provision and site servicing costs in accordance with the above can be offset against the municipal charge.

Approach to valuing infrastructure

- Contingencies for parks have been applied at a lower rate of 10 per cent due to the relatively low risk nature of the construction and embellishment works required for public parks.
- Land for parks and open space identified in the ICOP are to be valued in accordance with the rates identified in Section 3.3 – Provision of Land.
- The parks and open space embellishment base rates presented in July 2018 dollars are:

Park and open space type	Rate \$/ha [^]
District Recreational Park	\$242,550
District Recreational Park - Town Square	\$2,170,674
Local Sports Ground	\$365,803
Major Sports Ground	\$693,243
Regional Park	\$323,579
Local Linear Park	\$154,068
Major Linear Park	\$154,068

[^] Above costs assume land is provided in a suitable form.

2.1.5 Local community facilities network

Infrastructure included within this plan

An offset is available for the provision of serviced land for local community facility infrastructure servicing the PDA as identified on the community facilities network – local community facilities map contained within Section 5.1 of this plan, including:

- land for community facilities provided ‘generally-in-accordance’ with the attached local community facilities map and the locational requirements contained in EDQ Guideline No 11: Community Facilities, serviced with:
 - road frontage suitable for the site purposes
 - reasonably level, flood free and serviced
 - preliminary earthworks and grassing suitable for the site purposes
 - service connections including potable water, non-potable water when adjacent a supply system, sewerage, telephony, broadband and electricity.

Land provision and site servicing costs can be offset against the municipal charge.

Approach to valuing infrastructure

- Land for local community facilities identified in the ICOP are to be valued in accordance with the rates identified in Section 3.3 – Provision of Land.
- The site servicing base rates presented in July 2018 dollars are:

Site size	Description of Site Works	\$/ha
>5ha	Rate based pro rata on civil servicing works for a typical school site	\$217,446
<5ha	Rate, as above, with an additional 75% allowance.	\$380,529

2.1.6 Catalyst infrastructure charge

Catalyst infrastructure may be provided for the benefit of the PDA to facilitate efficient delivery of serviced land. This catalyst infrastructure may be funded by a loan from the state government.

The catalyst infrastructure charges comprises a quarantined component of the municipal charge, ensuring the repayment of these loans. Until the loan and the associated management and finance costs are repaid, each applicant will be required to pay the catalyst infrastructure charge.

The amount of the catalyst infrastructure charge is stated in the IFF.

Offsets will not be permitted against the catalyst infrastructure charge.

2.1.7 Public transport charge

In accordance with the Greater Flagstone PDA Development Scheme, the PDA is planned to be serviced by early public transport that is safe and equitable for all members of the community, supporting the delivery of the PDA Vision and PDA-wide criteria.

EDQ will lead and manage the service which will be delivered by TransLink. To fund this service, a public transport charge of \$1800 per residential lot (2018/19) will be applied. This charge comprises a portion of the municipal charge which will be quarantined to ensure the availability of funding under a funding agreement. Cross-crediting of municipal works against the public transport charge is not permitted, unless otherwise agreed to by the MEDQ.

2.2 State charge

State infrastructure included within the ICOP includes land for community facilities (i.e. schools, emergency services and health facilities) for assets or services delivered by the state as outlined below and illustrated on the community facilities network – state community facilities map.

2.2.1 State schools

Infrastructure included within this plan

An offset is available for the provision of serviced land for state school sites servicing the PDA as identified on the community facilities network – state community facilities map contained within Section 5.1 of this plan, including:

- land for community facilities provided ‘generally-in-accordance’ with the attached state community facilities map and the locational requirements contained in EDQ Guideline No 11: Community Facilities, serviced with:
 - road frontage suitable for the site purposes
 - preliminary earthworks and grassing suitable for the site purposes
 - service connections including potable water, non-potable water when adjacent a supply system, sewerage, telephony, broadband and electricity
- land that is reasonably level, flood free and serviced to enable school sites to be developed.

Land provision and site servicing costs can be offset against the state charge.

Approach to valuing infrastructure

- Site servicing costs include:
 - bulk earthworks
 - half road construction of an adjacent local road
 - access street to school yard and playing fields
 - perimeter road to playing field
 - stormwater drainage and civil services into the site
 - all service connections identified above.
- Land for local community facilities identified in the ICOP are to be valued in accordance with the rates identified in Section 3.3 – Provision of Land.
- The site servicing base rates presented in July 2018 dollars are:

School Site Works	Rate \$/ha
State Primary School	\$216,798
State High School	\$181,204

2.2.2 Emergency services and health facilities

Infrastructure included within this plan

An offset is available for the provision of serviced land for emergency services and health facility sites servicing the PDA as identified on the community facilities network – state community facilities map contained within Section 5.1 of this plan, including:

- land for community facilities provided ‘generally-in-accordance’ with the attached state community facilities map and the locational requirements contained in EDQ Guideline No 11: Community Facilities, serviced with:
 - road frontage suitable for the site purposes
 - preliminary earthworks and grassing suitable for the site purposes
 - service connections including potable water, non-potable water when adjacent to a supply system, sewerage, and electricity
- land that is reasonably level, flood free and serviced to enable community facility sites to be developed.

Land provision and site servicing costs can be offset against the state charge.

Approach to valuing infrastructure

- Land for local community facilities identified in the ICOP are to be valued in accordance with the rates identified in Section 3.3 – Provision of Land.
- The site servicing base rates presented in July 2018 dollars are:

Site size	Description of Site Works	Rate \$ / ha
>5ha	Rate based pro rata on civil servicing works for a typical school site	\$217,446
<5ha	Rate, as above, with an additional 75% allowance.	\$380,529

2.2.3 Rail corridor land

An allowance has been made for an additional 30 metre acquisition on top of the existing 30 metre rail corridor. It is assumed that where there is a road bridge over the rail corridor, the corridor can be narrowed to approximately 40 metre. The provision of land is valued in accordance with the rates identified in Section 3.3 – Provision of Land.

Land provision costs can be offset against the state charge.

2.3 Implementation charge

Claims for offsets against the implementation charge are to be assessed in accordance with an approved implementation plan which has been prepared in accordance with EDQ Practice Note No. 15: Implementation Works in Greenfield PDAs.

2.4 Sub-regional charge

2.4.1 Overview

The sub-regional charge is specifically collected to pay for infrastructure delivered by the state or council for roads, water and sewerage services. An offset may be available through an existing or future infrastructure agreement with the MEDQ and Logan City Council.

2.4.2 Road infrastructure

[Infrastructure included within this plan](#)

Sub-regional road infrastructure servicing the PDA is identified on the sub-regional infrastructure map in section 5.1.

2.4.3 Water supply

[Infrastructure included within this plan](#)

Sub-regional infrastructure servicing the PDA is identified on the sub-regional infrastructure map in Section 5.1.

2.4.4 Sewerage

[Infrastructure included within this plan](#)

Sub-regional infrastructure servicing the PDA is identified on the sub-regional infrastructure map in Section 5.1.

2.5 Value capture charge

The value capture charge has been implemented to assist in the delivery of sub-regional infrastructure. The only infrastructure contributions that can be offset against this charge are sub-regional infrastructure approved by the MEDQ and Logan City Council through an infrastructure agreement.

3.0 Administration

3.1 Guidelines and practice notes

Unless otherwise agreed, all items of infrastructure are to be delivered in accordance with the relevant EDQ guidelines and practice notes.

3.2 Alternative network layouts

The infrastructure maps contained in this ICOP identify the current understanding of the offsetable infrastructure networks/facilities required to service the PDA. It is expected that these will vary over time.

Infrastructure offsets will be considered for alternative network layouts that are generally in accordance with the location and/or alignment of infrastructure identified on the ICOP infrastructure maps subject to these networks providing an equivalent level of service at no greater cost and/or subject to the approval of the MEDQ and other relevant authorities.

3.3 Provision of land

Infrastructure included within this plan

An offset is available for the provision of land to support the infrastructure servicing the PDA as identified on the municipal, state and sub-regional infrastructure network maps contained within Section 5.1 of this plan and specifically identified within the cost schedules presented in Section 5.2, including:

- land for water supply reservoirs
- land for municipal roads and off-road shared paths
- land for parks and open space
- land for local community facilities
- land for state community facilities (including state schools, emergency services and health facilities)
- land for railway corridor.

Costing approach

- The land value to be offset is in accordance with the table below and is based on predevelopment levels for all assets, consequently the rate may vary along the length or across an area if the existing flood immunity varies. The predevelopment levels are to be based on council's flood model or approved flood and stormwater reports.
- For infrastructure charge offset purposes, the land values provided within the ICOP reflect the maximum amounts available and will apply only where new land is provided to accommodate the ICOP infrastructure. Any existing reserves (e.g. roads, recreation, waterways, etc.) will not attract a land value.
- Land value rates for greater than Q100 are not applicable to open space and parks infrastructure identified on the ICOP maps and as defined in the development scheme which attracts a maximum rate of \$39,639 per hectare.
- The following maximum land value rates for infrastructure charge offset purposes will apply for 2018/19:

Land Location	Rate \$/ha
Less than Q20	\$22,650
Greater than Q20 & less than Q100	\$39,639
Greater than Q100	\$226,505

3.4 Cross-crediting the municipal charge

Cross-crediting is the process whereby, contributions for a particular component of an infrastructure charge can be offset against a different component of the infrastructure charge. For example, offsetting the construction of trunk road, against charges for trunk works of another category – e.g. trunk sewer.

During the establishment of new development fronts, there is potential for more than one type of infrastructure (e.g. road works and sewer reticulation), being required over other types of infrastructure (e.g.

district sports fields). Cross-crediting allows infrastructure charges to be allocated to the infrastructure with the greatest need and therefore assists in affordability in the early stages of development.

Cross-crediting of the municipal charge will be permitted in the Greater Flagstone PDA; however cross-crediting of the municipal charge against the catalyst infrastructure charge and public transport charge will not be permitted.

3.5 Excluded assets

The following planning, design and construction costs associated with local and sub-regional infrastructure have been excluded from the ICOP:

- infrastructure items external to the PDA boundary (unless explicitly identified)
- rail transport infrastructure, including civil works/stations/platforms (rail corridor land is included and funded from the state charge)
- stormwater and drainage requirements and associated works (unless directly associated with another infrastructure item e.g. a road or park)
- bulk water supply mains from the Wyaralong Water Treatment Plant
- land acquisition or facilities relating to telecommunications, electricity and gas supply
- recycled water treatment, reticulation and/or associated works
- allowance for trenchless construction for infrastructure items under existing structures has not been made, unless explicitly identified in this ICOP
- allowance for maintenance of parks and open space assets, community facility assets and state government facility assets
- allowance for local recreation parks or land for conservation purposes.

3.6 Indexation of costs

Works costs and land values for all infrastructure items are presented in July 2018 dollars. Any adjustments are to be in accordance with the 3-yearly PPI average from this date.

3.7 Review of charges and offsets

To ensure the charging and offset frameworks remain relevant, it is planned to be reviewed by the MEDQ every five years.

Understanding that the delivery of affordable land to the market is a key outcome, the aim of the review is to ensure that the charges still cover construction costs for the infrastructure as identified in this document. It is understood that some key infrastructure networks may vary to provide better efficiency in infrastructure delivery.

4.0 Abbreviations and definitions

ICOP	Infrastructure Charging Offset Plan
IFF	Infrastructure Funding Framework
IFFCOA	Infrastructure Funding Framework, Crediting and Offset Arrangements
LCC	Logan City Council
PDA	Priority Development Area
EDQ	Economic Development Queensland
MEDQ	Minister for Economic Development Queensland

3-yearly PPI average is defined in section 114 of the *Planning Act 2016* and means the PPI index adjusted according to the 3-year moving average quarterly percentage change between financial quarters.

Producer Price Index (PPI) means the producer price index for construction 6427.0 (ABS PPI) index number 3101 – Road and Bridge Construction index for Queensland published by the Australian Bureau of Statistics.

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5.0 Appendices

5.1 Detailed infrastructure network maps

Municipal infrastructure:

- Water supply network north – water supply map
- Water supply network south – water supply map
- Sewerage network north – sewerage map
- Sewerage network south – sewerage map
- Transport network – overview map
- Transport network – road map
- Transport network – intersections map
- Transport network – bridges & culverts map
- Transport network – off road shared path map
- Parks and open space network – parks and open space map
- Community facilities network – local community facilities map

State community infrastructure:

- Community facilities network – state community facilities map

Sub-regional Infrastructure:

- Sub-regional road upgrade map
- Sub-regional water supply map
- Sub-regional sewer infrastructure map

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5.2 Detailed infrastructure network cost schedules

Municipal infrastructure:

- Water supply network
- Sewerage network
- Transport network
- Parks and open space network
- Community facilities network – local community facilities

State community infrastructure:

- Community facilities network – state community facilities

Sub-regional infrastructure:

Sub-regional infrastructure cost schedules may be made available upon written request to Economic Development Queensland.

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