5.3. DOUGLAS SHIRE COUNCIL LOCAL GOVERNMENT INFRASTRUCTURE PLAN

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GENERAL MANAGER	Nicholas Wellwood, General Manager Operations
DEPARTMENT	Operations

RECOMMENDATION

That Council resolves to:

1. **endorses the draft Local Government Infrastructure Plan.**

2. **appoint a pre-approved LGIP panel reviewer to review of the Local Government Infrastructure Plan, as required by the Ministerial Guidelines under the *Planning Act 2016*.**

3. **refer the Local Government Infrastructure Plan to the State Government for its First State Interest Check, following completion of the LGIP Panel review.**

4. **commence public notification of the Local Government Infrastructure Plan following completion of the First State Government Interest Check.**

EXECUTIVE SUMMARY

Under the *Sustainable Planning Act 2009*, Council is required to prepare a Local Government Infrastructure Plan (LGIP). At the Ordinary Council Meeting held on 19 April 2016, Council resolved to prepare a LGIP for Douglas Shire.

Despite the resolution to commence work on preparing a LGIP occurring under *Sustainable Planning Act 2009*, the *Planning Act 2016*, now requires continuing work on the LGIP to follow the provisions of the Ministerial Guidelines under the *Planning Act 2016*, rather than *Statutory Guideline 04/14 – Making and amending local planning instruments*.

Work on preparing a draft LGIP has been completed. The draft LGIP requires Council's endorsement prior to referral to a pre-approved LGIP panel reviewer, and subsequent referral to the State Government for its First State Interest Check.

BACKGROUND

Council is required to undertake a planning scheme amendment to incorporate a LGIP into the proposed Douglas Shire Council Planning Scheme. The LGIP will replace Council's current Adopted Infrastructure Charges Resolution (AICR) which is the current mechanism for collecting infrastructure charges in Douglas Shire.

A LGIP is a section of the planning scheme which identifies and outlines the type, size, location and cost of infrastructure which is required to service the expected population and non-residential sector envisaged by the planning scheme.

It considers infrastructure demand and requirements across a number in trunk infrastructure networks including:

- Water;
- Sewerage;
- Transport (including roads and trunk pathway infrastructure);
- Public parks and land for community purposes.

Work on the preparation of a draft LGIP is now complete and Council's endorsement is necessary to progress the LGIP through LGIP panel review, and then on to First State Interest Check.

Completion of the draft LGIP represents the culmination of a significant body of work across Council that results in achieving the purpose of the LGIP, which is to:

- integrate infrastructure planning with the land use planning identified in the planning scheme;
- provide transparency regarding a local government's intentions for the provision of trunk infrastructure;
- enable Council to estimate the cost of infrastructure provision to assist its long term financial planning;
- ensure that trunk infrastructure is planned and provided in an efficient and orderly manner; and
- provide a basis for the imposition of conditions about infrastructure on development approvals.

A copy of the Draft LGIP has been provided in Attachment 1 - 8.

A copy of the checklist as required by the State is provided as Attachment 9.

COMMENT

Risk Management, Council Finance and the Local Economy

The LGIP provides transparency for the development industry, and community in general, with respect to Council's intentions for the provision of trunk infrastructure. It also ensures that trunk infrastructure is planned and provided in an efficient and orderly manner that supports the growth of the region.

Statutory

Council resolved to prepare an LGIP under the *Sustainable Planning Act 2009.* However, with the introduction of the *Planning Act 2016* in July 2017, continuing work must now follow the Ministerial Guidelines under the *Planning Act 2016.*

Under the *Planning Act 2016*, the LGIP must be reviewed within 5 years of adoption. However, amendments (including minor amendments) may be made to the LGIP at any time, on an as-needs basis.

It is proposed that regular updates be made to the LGIP, to reflect amendments to trunk infrastructure network planning and annual capital budgetary considerations.

A significant internal review is expected as Council strategic asset management and financial modeling systems are matured and refined and a more detailed financial sustainability assessment completed with the LGIP.

Policy

The LGIP will be Council's primary trunk infrastructure planning document, incorporating trunk infrastructure planning for water supply, wastewater, transport, parks and land for community purposes, based upon current standards of service, population and demand modeling.

Corporate and Operational Plans

The LGIP and proposed resolution advances the goals of Council's Corporate Plan and supports Council's commitment to provide infrastructure in an efficient and coordinated manner while delivering consistent value for money.

FINANCIAL/RESOURCE IMPLICATIONS

Funds were allocated in the budget for the 2017/2018 financial year to complete the necessary work on the LGIP. This funding takes into account:

- the preparation of the draft LGIP package (completed);
- project status meetings;
- third party reviews;
- amendment to the LGIP following reviews and / or public notification; and
- resourcing requirements of staff involved in all stages of the LGIP project.

RISK MANAGEMENT IMPLICATIONS

Council is required to finalise the LGIP by 30 June 2018. The State Government has firmly advised that Local Governments that fail to adopt and complete their LGIPs by this deadline will not be able to charge and collect money for trunk infrastructure.

The timeline to finalise the work on the LGIP is tight and any delay in the process puts Council at significant future financial risk.

SUSTAINABILITY IMPLICATIONS

Economic: Council's existing AICR ceases to have effect from 1 July 2018. Unless the LGIP is completed and in place by 30 June 2018, Council can no longer levy infrastructure charges upon development. This would have significant financial impact on Council with respect to the provision of infrastructure and capital works revenue.

The proposed LGIP identifies the current standards of service for trunk infrastructure elements and ensures Council is collecting the appropriate level of funding for infrastructure and is financially sustainable.

Environmental: The desired standards of service for infrastructure contained in the LGIP consider the impact of infrastructure provision on the natural environment.

Social: The inability to levy and collect infrastructure charges would have a negative impact on the ability for Council to maintain and fulfill community expectations with respect to the provision of suitable and functional infrastructure: being one of Council's core responsibilities.

CORPORATE/OPERATIONAL PLAN, POLICY REFERENCE

This report has been prepared in accordance with the following:

Corporate Plan 2014-2019 Initiatives:

Theme 2 – Building a Sustainable Economic Base

2.1.1 Develop management plans for all Council assets and adequately resource their implementation.

Theme 5 – Governance

5.1.1 Establish and develop long term financial, resource and infrastructure planning to ensure on-going capacity to fund operations and capital works programs.

5.1.2 Implement a robust enterprise risk management culture to identify and manage potential risks.

Operational Plan 2017-2018 Actions:

On-going activities

Ensuring compliance with relevant State legislation, Council Local Laws and the Shire Planning Scheme.

COUNCIL'S ROLE

Council can play a number of different roles in certain circumstances and it is important to be clear about which role is appropriate for a specific purpose or circumstance. The implementation of actions will be a collective effort and Council's involvement will vary from information only through to full responsibility for delivery.

The following areas outline where Council has a clear responsibility to act:

Asset Owner: Meeting the responsibilities associated with owning or being the custodian of assets such as infrastructure.

Fully Responsible: Funding the full cost of a program or activity.

CONSULTATION

A significant amount of internal consultation was undertaken in the preparation of the LGIP, including, but not limited to:

- Internal asset owners as part of the ongoing preparation of the LGIP, including Water and Wastewater, Infrastructure Services, Development Assessment and Coordination, Finance and Information Technology.

Council has also undertaken consultation with the Department of Transport and Main Roads in relation to the trunk road network and has included their feedback into the planning and documentation where appropriate.

COMMUNITY ENGAGEMENT

Following State Interest Review, Council is required to publicly notify the LGIP for 30 business days.

ATTACHMENTS

1. Attachment 1 - Planning Localitites **[5.3.1]**
2. Attachment 2 - Priority Infrastructure Areas **[5.3.2]**
3. Attachment 3 - Water Trunk Infrastructure **[5.3.3]**
4. Attachment 4 - Sewerage Trunk Infrastructure **[5.3.4]**
5. Attachment 5 - Transport Road Trunk Infrastructure **[5.3.5]**
6. Attachment 6 - Paths Trunk Infrastructure **[5.3.6]**
7. Attachment 7 - Parks and Reserves Trunk Infrastructure **[5.3.7]**
8. Attachment 8 - Stormwater Trunk Infrastructure **[5.3.8]**
9. Attachment 9 - LGIP Compliance Checklist **[5.3.9]**
10. Attachment 10 - Desired Stadards of Service LGIP **[5.3.10]**
11. Attachment 11 - Copy of Charges Summary DSC LGIP **[5.3.11]**

DOUGLAS SHIRE COUNCIL

Trinity Engineering and Consulting

LOCAL GOVERNMENT INFRASTRUCTURE PLANS (PLANNING LOCALITIES)

for

DOUGLAS SHIRE COUNCIL

SCHEDULE OF PROJECT DRAWINGS

PRELIMINARY ISSUE ONLY

LEGEND

LOCALITIES

- COASTAL SUBURBS, VILLAGES AND TOWNSHIPS (COOYA BEACH)
- COASTAL SUBURBS, VILLAGES AND TOWNSHIPS (DAINTREE TOWNSHIP)
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- RURAL AREAS AND RURAL SETTLEMENTS
- SETTLEMENT AREAS NORTH OF THE DAINTREE RIVER
- WORLD HERITAGE AREAS AND ENVIRONS

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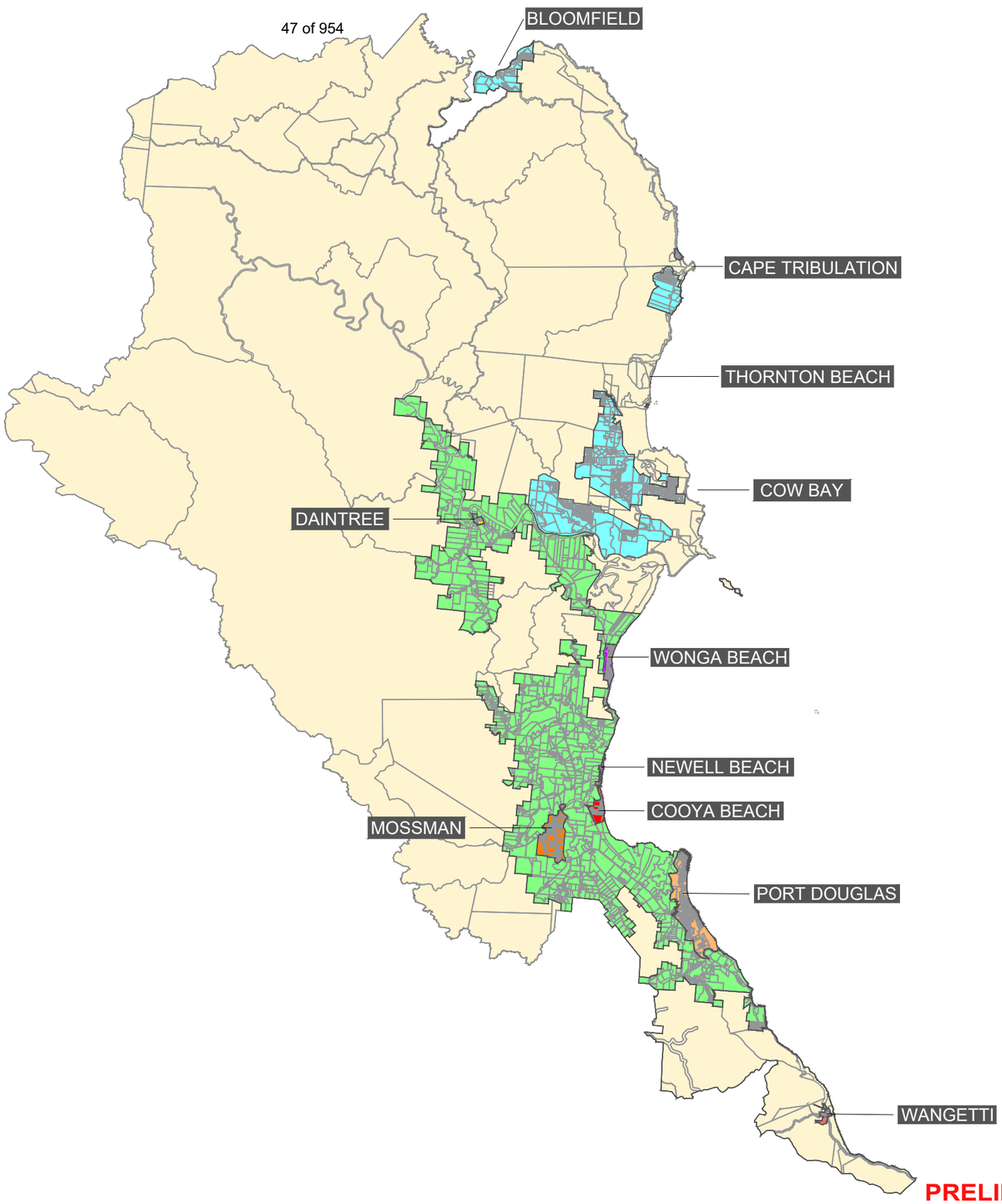

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GENERAL

- LOCALITIES BOUNDARY
- PROPERTY BOUNDARY

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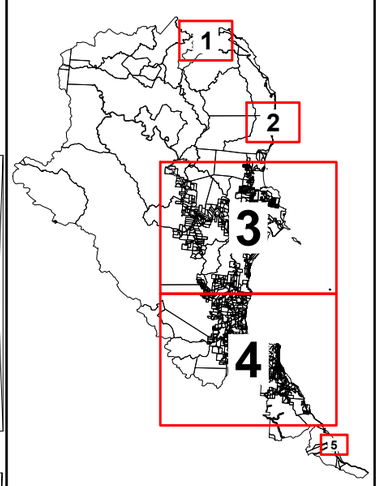
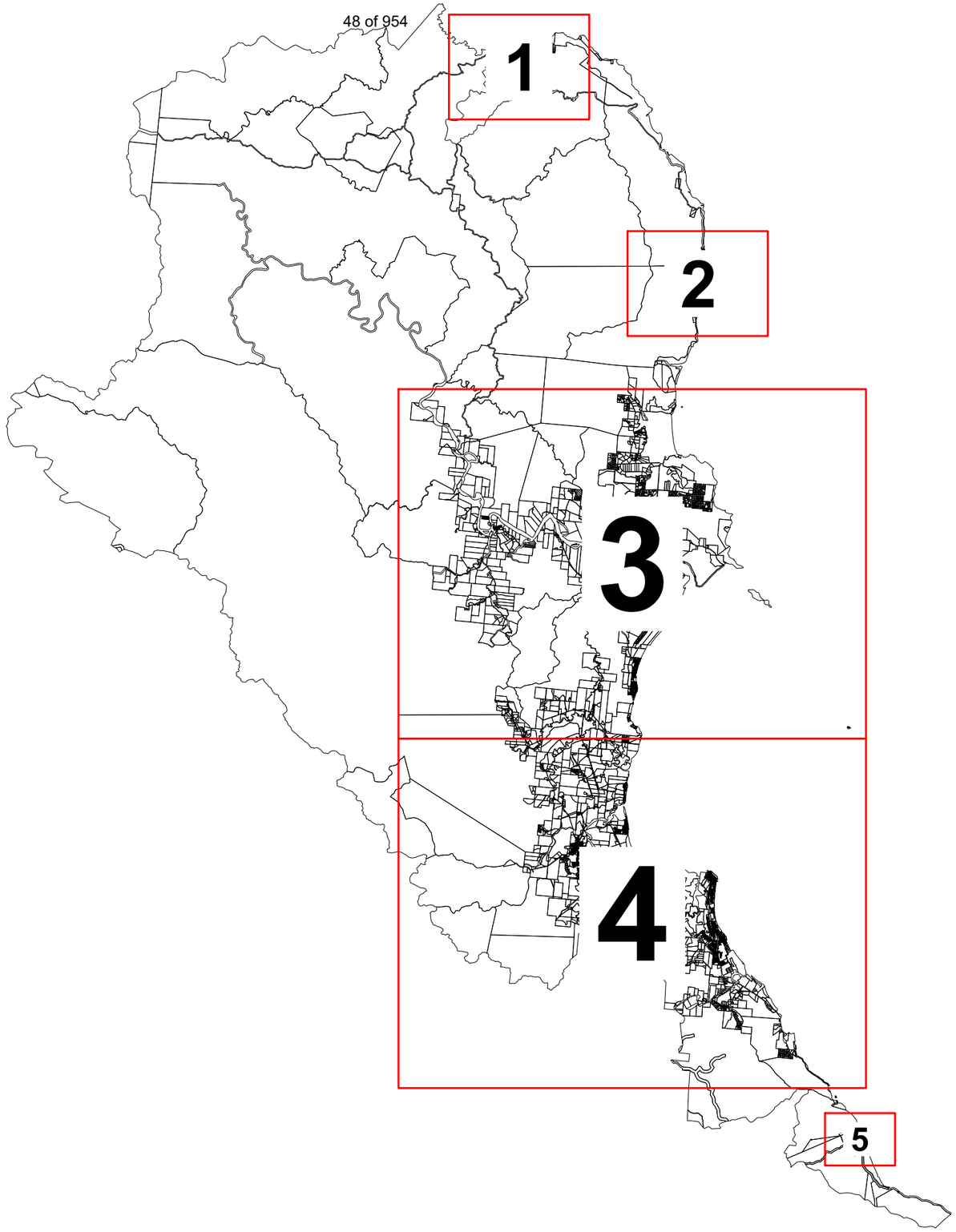
KEY MAP





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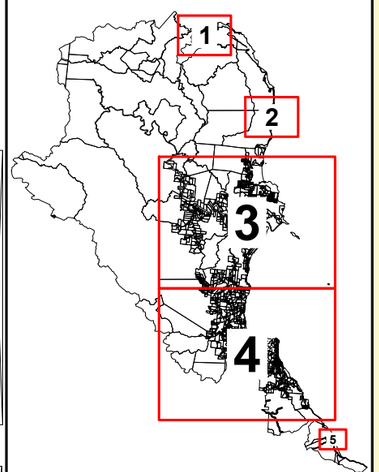

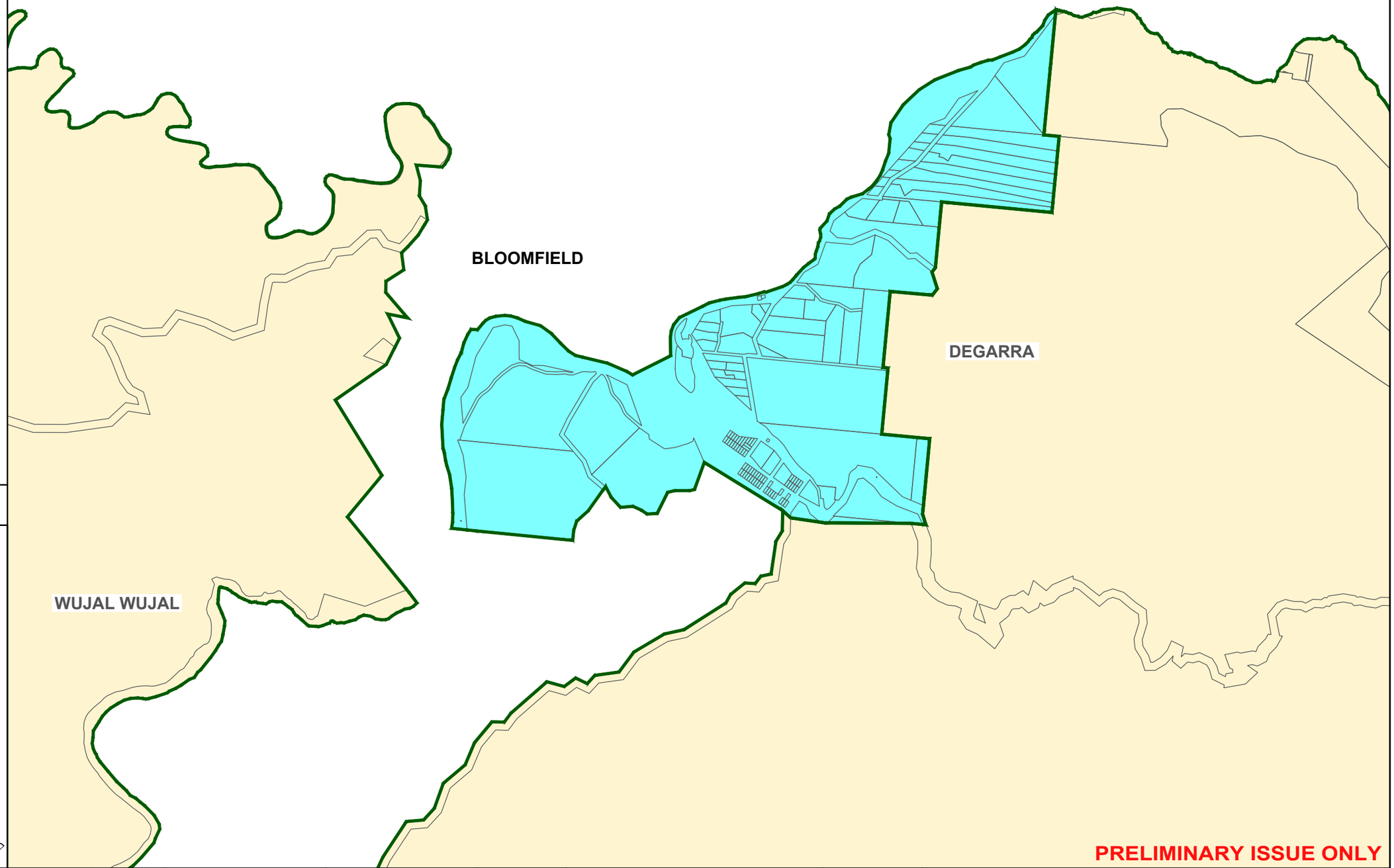

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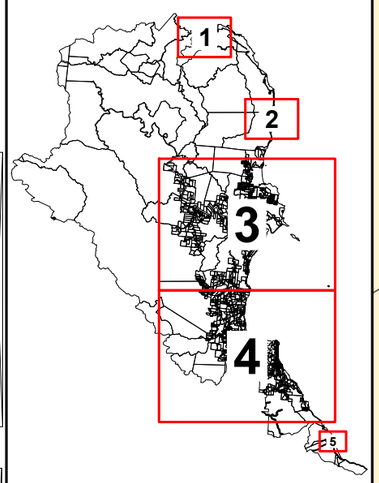

CAPE TRIBULATION

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IM	RR	RR	RR	R RANKINE		31/07/17	1100-144	A

LEGEND

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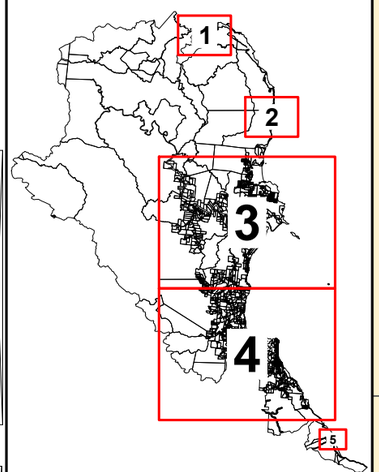

DAGMAR
DIWAN
COW BAY
DAINTREE
KIMBERLEY
LOWER DAINTREE
BAMBOO
WONGA BEACH

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LEGEND

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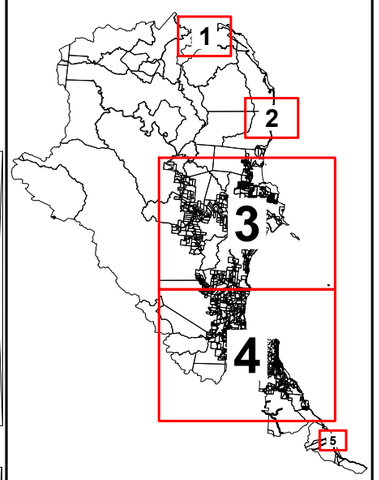

NEWELL BEACH

COOYA BEACH

FINLAYVALE

MOSSMAN GORGE

PORT DOUGLAS

OAK BEACH

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LEGEND

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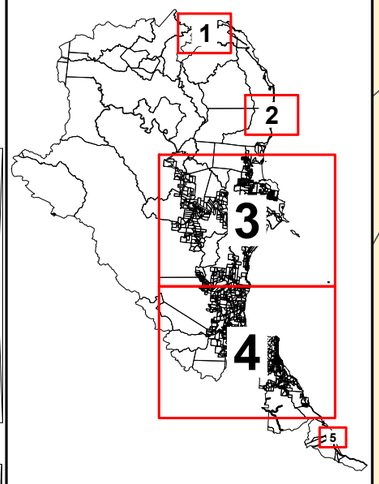
KEY MAP



WANGETTI

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Title	PLANNING LOCALITIES - GRID 5

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IM	RR	RR	RR	R RANKINE		16/08/17	1100-147	A

DOUGLAS SHIRE COUNCIL

Trinity Engineering and Consulting

LOCAL GOVERNMENT INFRASTRUCTURE PLANS (PRIORITY INFRASTRUCTURE AREAS)

for

DOUGLAS SHIRE COUNCIL

SCHEDULE OF PROJECT DRAWINGS

1100–130	DRAWING INDEX
1100–131	PRIORITY INFRASTRUCTURE AREAS
1100–132	PRIORITY INFRASTRUCTURE AREAS KEY MAP
1100–133	PRIORITY INFRASTRUCTURE AREAS – GRID 1
1100–134	PRIORITY INFRASTRUCTURE AREAS – GRID 2
1100–135	PRIORITY INFRASTRUCTURE AREAS – GRID 3
1100–136	PRIORITY INFRASTRUCTURE AREAS – GRID 4
1100–137	PRIORITY INFRASTRUCTURE AREAS – GRID 5

PRELIMINARY ISSUE ONLY

LEGEND

LGIP PRIORITY INFRASTRUCTURE AREAS

- DAINTREE
- WONGA BEACH
- NEWELL BEACH
- COOYA BEACH
- MOSSMAN
- PORT DOUGLAS

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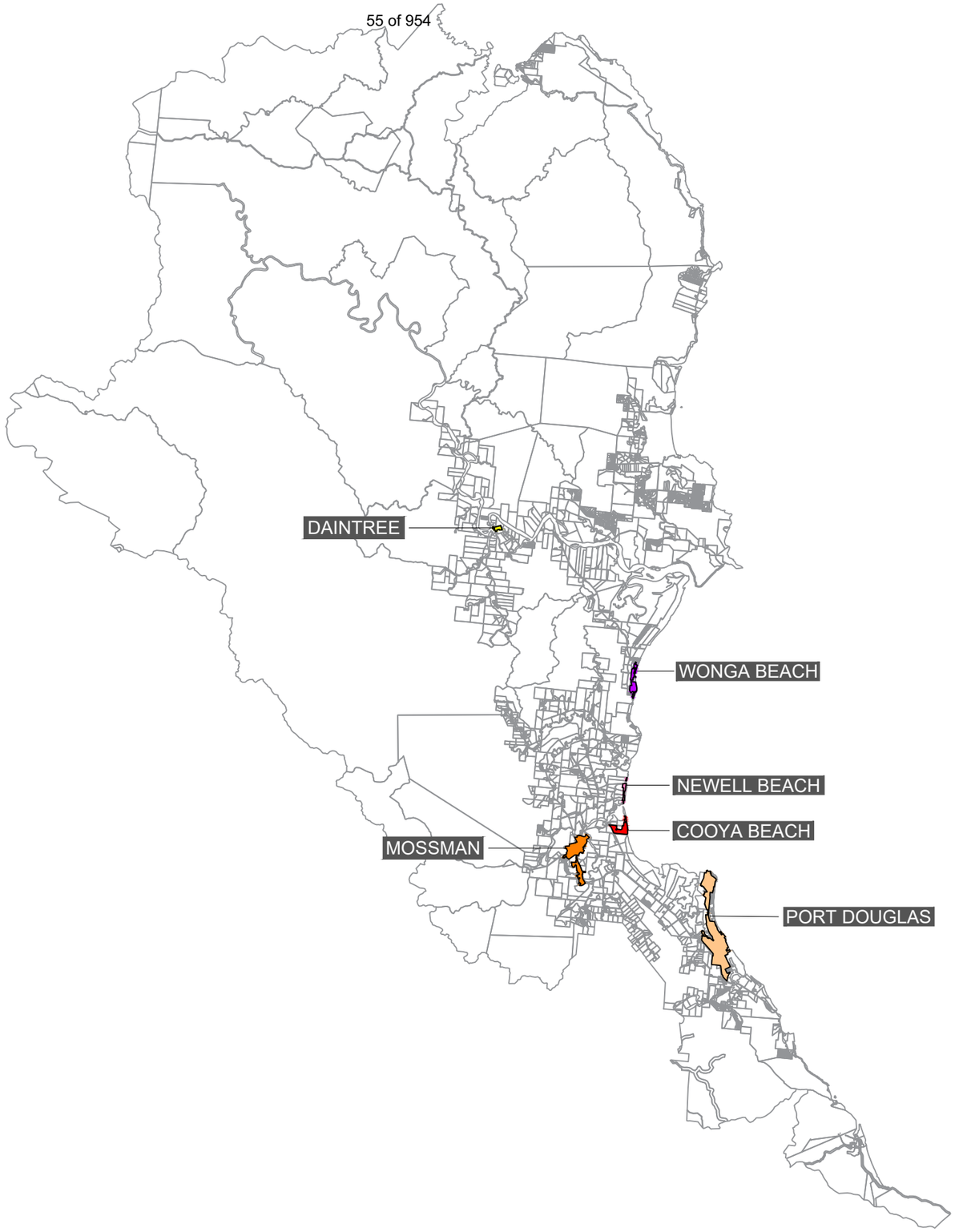

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LEGEND

PRIORITY INFRASTRUCTURE AREAS

- RESIDENTIAL 1
- RESIDENTIAL 2
- TOURIST AND RESIDENTIAL
- COMMERCIAL
- INDUSTRY
- COMMUNITY AND RECREATIONAL FACILITIES
- RURAL SETTLEMENT
- RURAL
- CONSERVATION

GENERAL

- PRIORITY INFRASTRUCTURE AREA (PIA BOUNDARY)
- PROPERTY BOUNDARY

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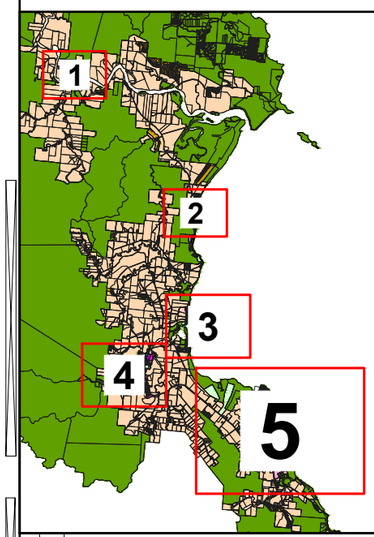
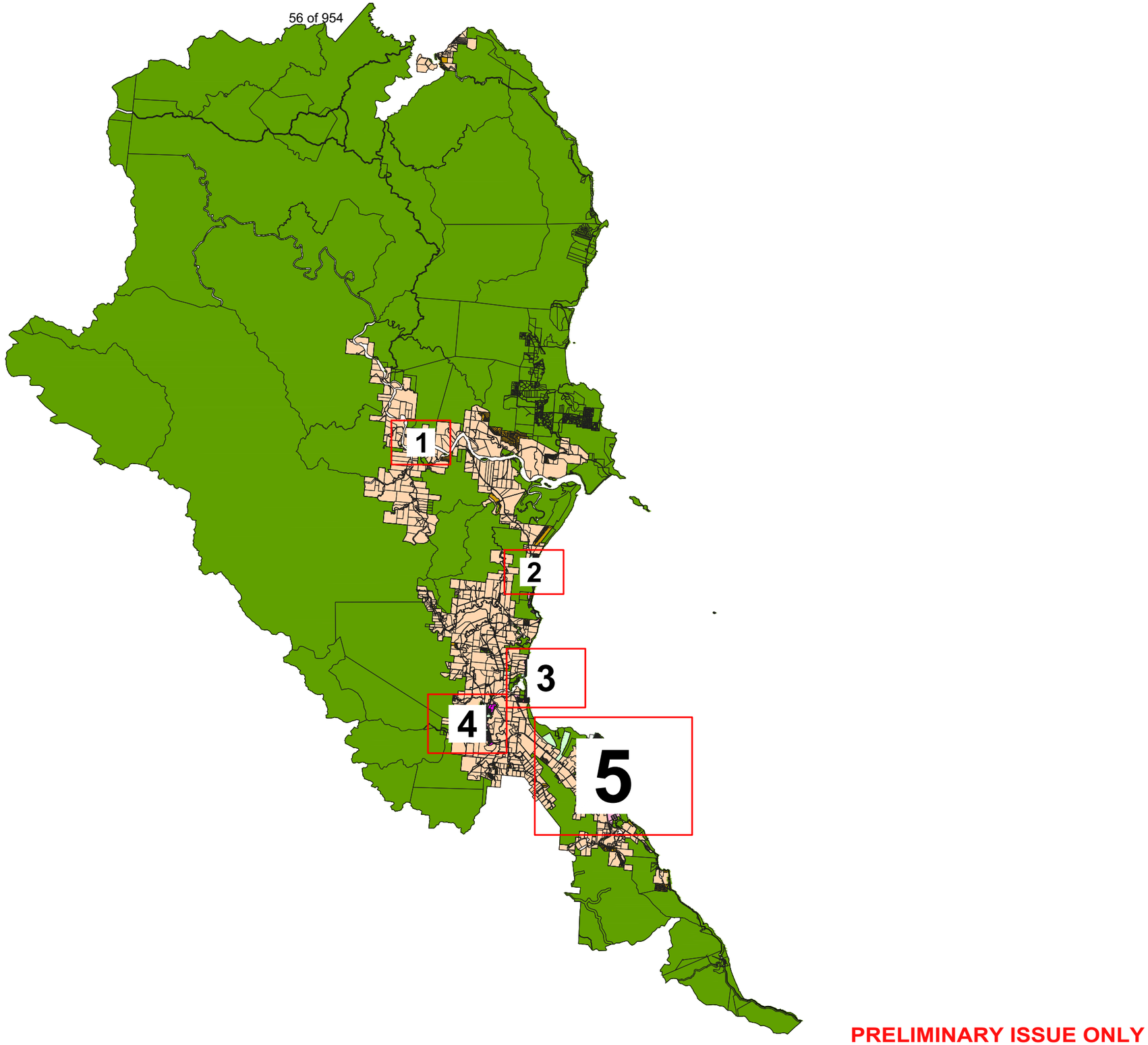
KEY MAP





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Revisions					
A	ISSUED FOR REVIEW				
No.	Description	Reviewed	Approved	Date	

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Scale (A3 size)	Client
1:360000	DOUGLAS SHIRE COUNCIL
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
	Title: PRIORITY INFRASTRUCTURE AREAS KEY MAP

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		10/08/17	1100-132	A

LEGEND

PRIORITY INFRASTRUCTURE AREAS

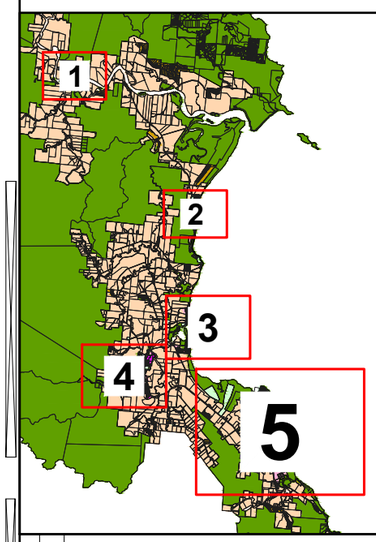
- RESIDENTIAL 1
- RESIDENTIAL 2
- TOURIST AND RESIDENTIAL
- COMMERCIAL
- INDUSTRY
- COMMUNITY AND RECREATIONAL FACILITIES
- RURAL SETTLEMENT
- RURAL
- CONSERVATION

GENERAL

- PRIORITY INFRASTRUCTURE AREA (PIA BOUNDARY)
- PROPERTY BOUNDARY

N

KEY MAP



WONGA BEACH

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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 2

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Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: PRIORITY INFRASTRUCTURE AREAS - GRID 2

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		10/08/17	1100-134	A

LEGEND

PRIORITY INFRASTRUCTURE AREAS

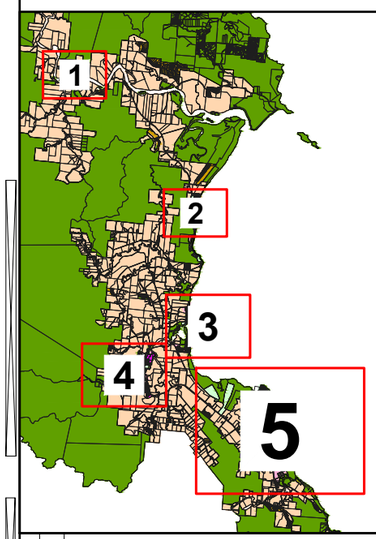
- RESIDENTIAL 1
- RESIDENTIAL 2
- TOURIST AND RESIDENTIAL
- COMMERCIAL
- INDUSTRY
- COMMUNITY AND RECREATIONAL FACILITIES
- RURAL SETTLEMENT
- RURAL
- CONSERVATION

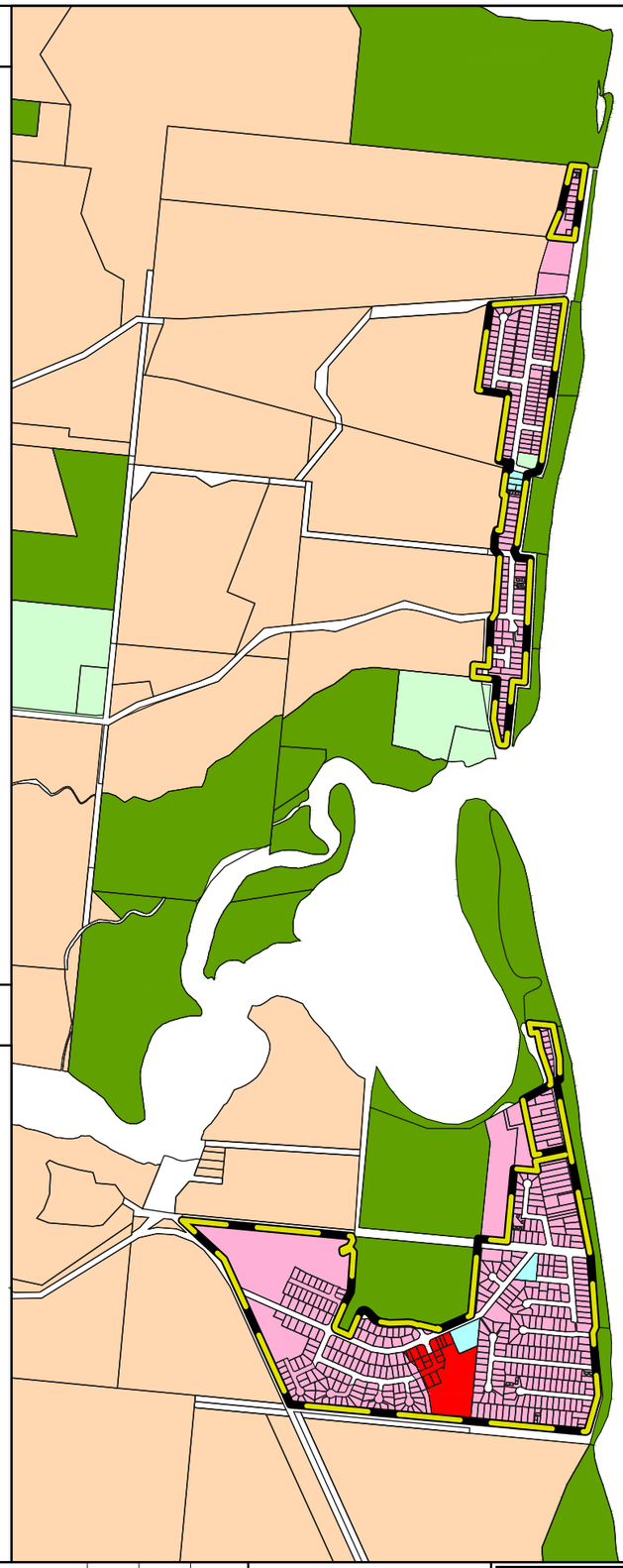
GENERAL

- PRIORITY INFRASTRUCTURE AREA (PIA BOUNDARY)
- PROPERTY BOUNDARY

N

KEY MAP





NEWELL BEACH

COOYA BEACH

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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 3

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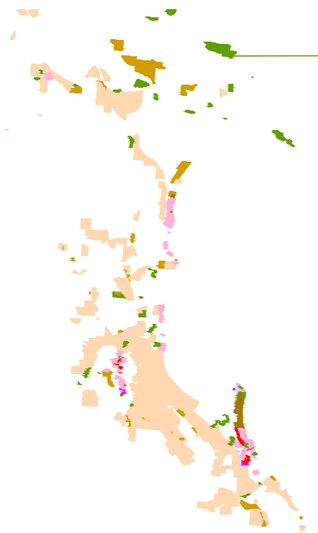
Client	DOUGLAS SHIRE COUNCIL
Project	1100 DOUGLAS SHIRE COUNCIL LGIP
Title	PRIORITY INFRASTRUCTURE AREAS - GRID 3

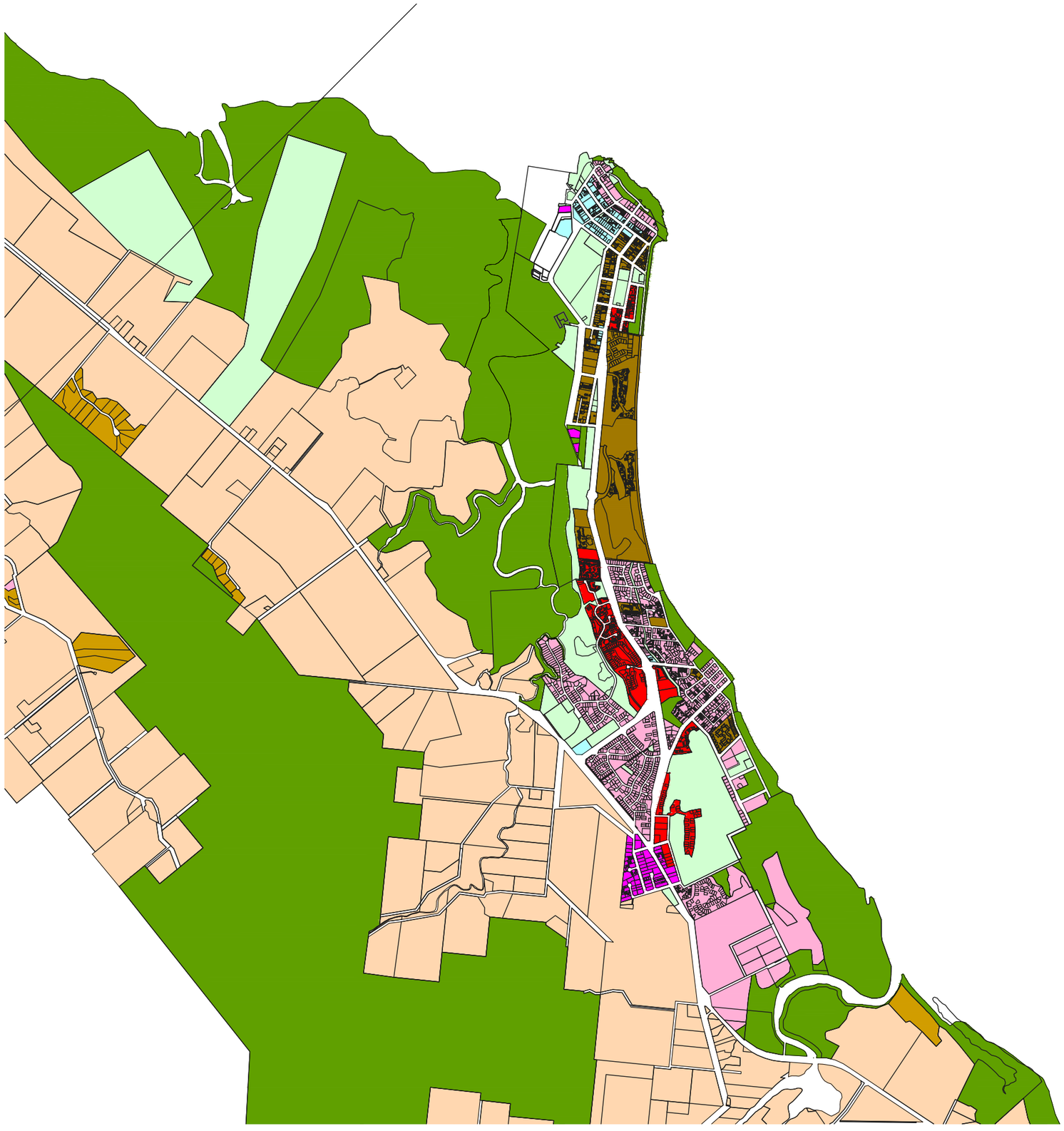
Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		10/08/17	1100-135	A

FINLAYVALE

MOSSMAN

MOSSMAN GORGE





DOUGLAS SHIRE COUNCIL

Trinity Engineering and Consulting

LOCAL GOVERNMENT INFRASTRUCTURE PLANS (WATER TRUNK INFRASTRUCTURE)

for

DOUGLAS SHIRE COUNCIL

SCHEDULE OF PROJECT DRAWINGS

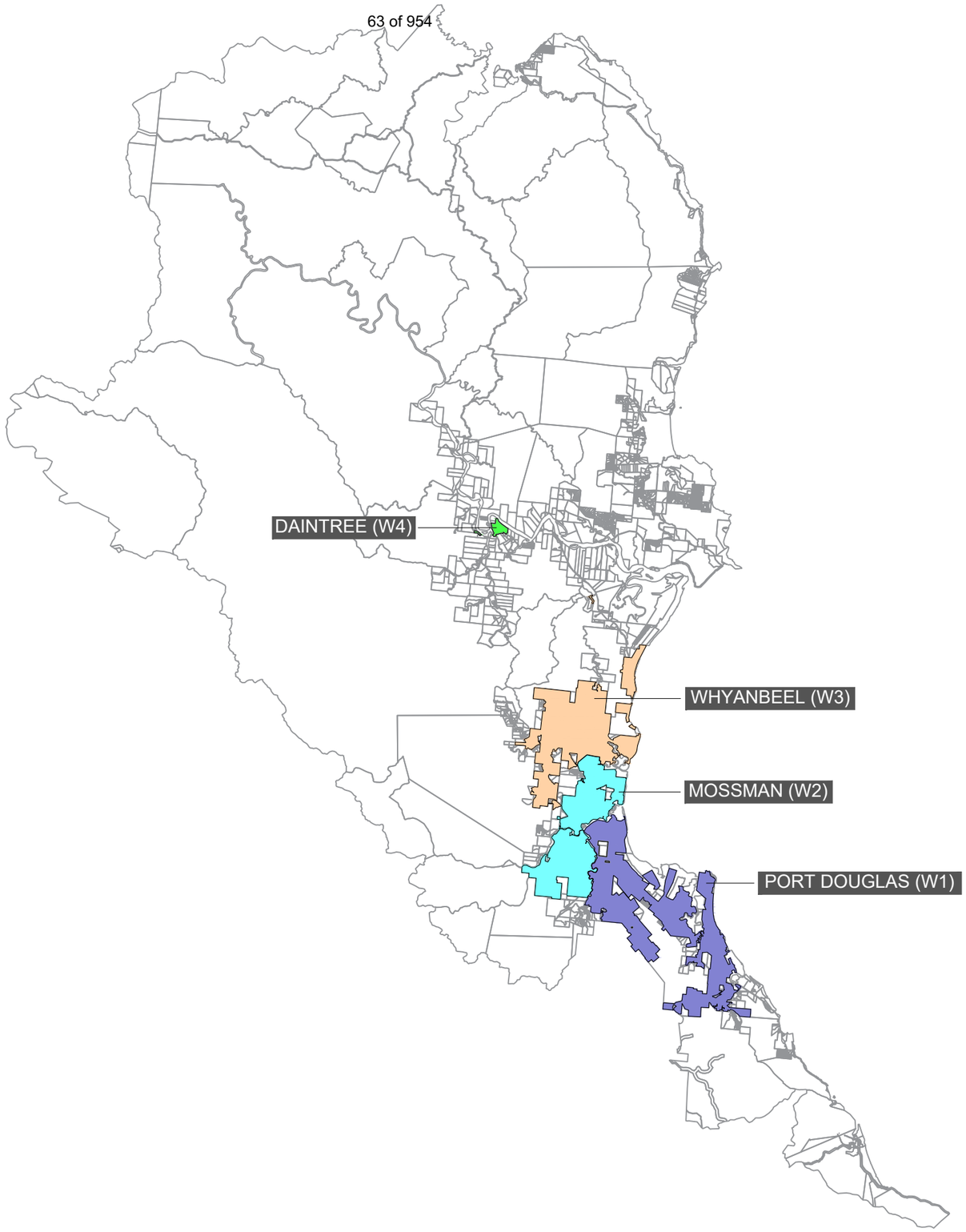
PRELIMINARY ISSUE ONLY

LEGEND

WATER INFRASTRUCTURE SUPPLY CHARGES CATCHMENT AREAS

- PORT DOUGLAS (W1)
- MOSSMAN (W2)
- WHYANBEEL (W3)
- DAINTREE (W4)

N



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Revisions					
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1:360000	IM	RR	RR	RR	R RANKINE		17/07/17	1100-101	A

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Client: DOUGLAS SHIRE COUNCIL
Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
Title: WATER INFRASTRUCTURE SUPPLY CHARGES CATCHMENTS

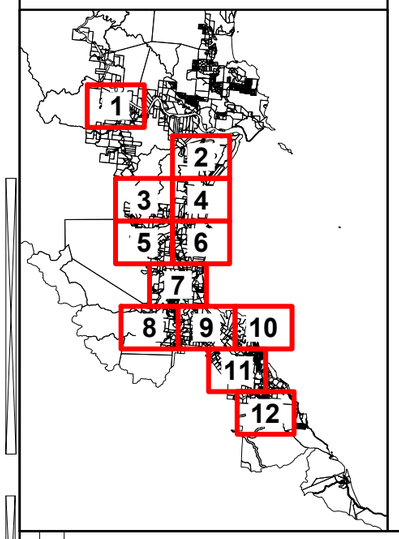
LEGEND

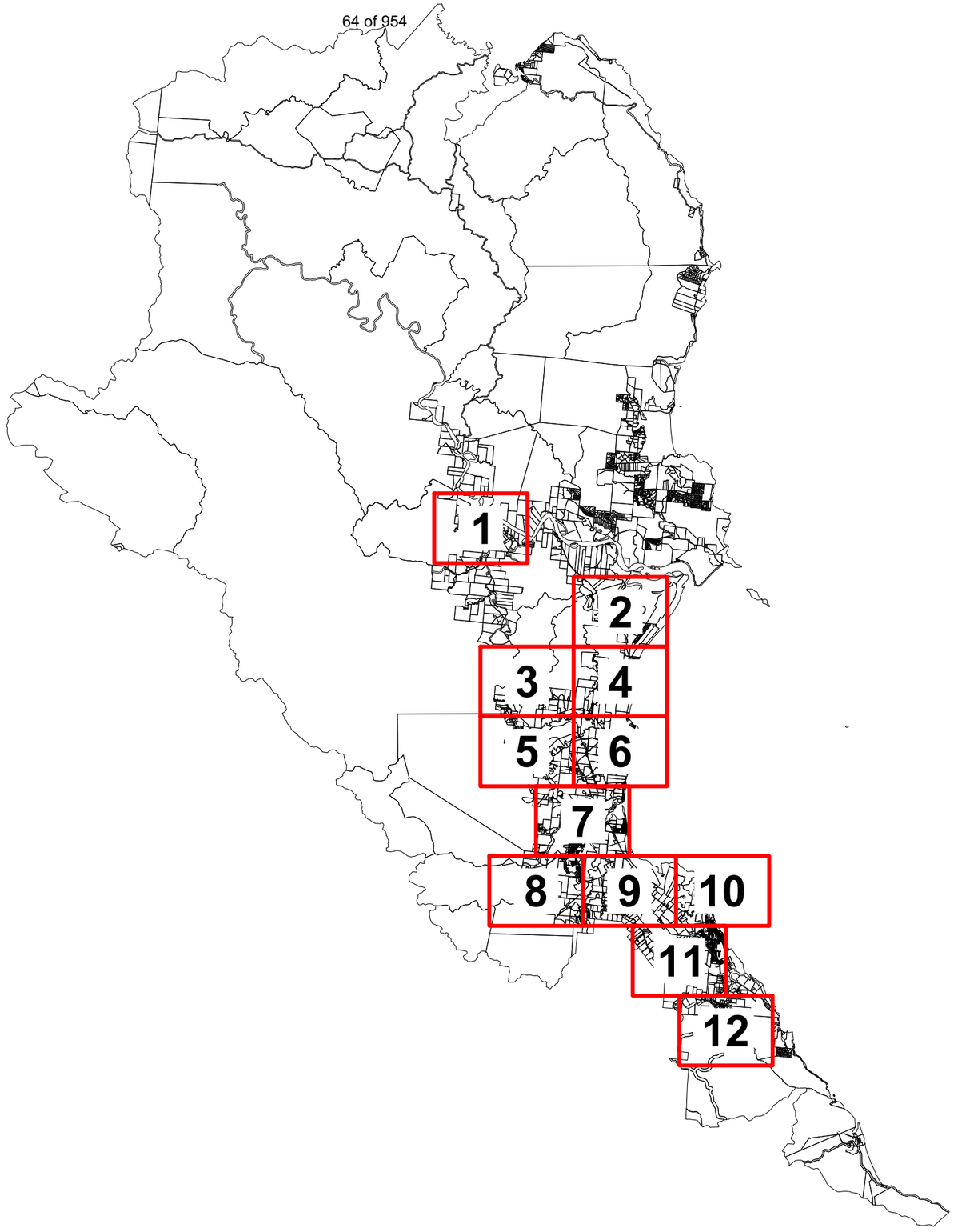
EXISTING WATER SUPPLY TRUNK INFRASTRUCTURE

- WATER MAIN
- PUMP STATION
- WATER TREATMENT PLANT
- RESERVOIR
- BORE
- RAW WATER INTAKE

N

KEY MAP





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1:360000	IM	RR	RR	RR	R RANKINE		29/08/17	1100-102	A

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Client: DOUGLAS SHIRE COUNCIL
Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
Title: EXISTING WATER TRUNK INFRASTRUCTURE KEY MAP

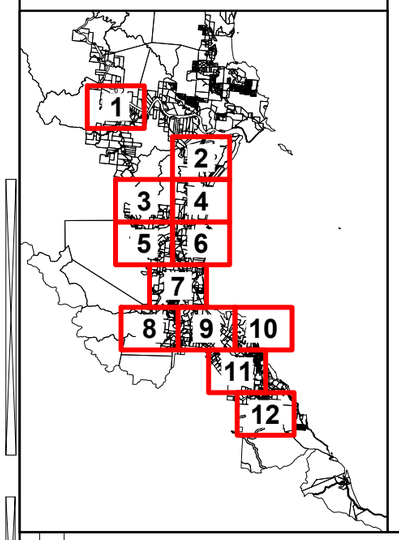
LEGEND

EXISTING WATER SUPPLY TRUNK INFRASTRUCTURE

- WATER MAIN
- PUMP STATION
- WATER TREATMENT PLANT
- RESERVOIR
- BORE
- RAW WATER INTAKE

N

KEY MAP



DAINTREE (W4)

WME081
WME080
WME079
WIE002
WME078
WME077
WME004
WME010
WME009
WME007
WME076
WME011
WTPE002
WME201
WME074
WRE017
WME008
WRE018
WME003
WRE013

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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 1

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Scale (A3 size)	Client	
1:20000	DOUGLAS SHIRE COUNCIL	
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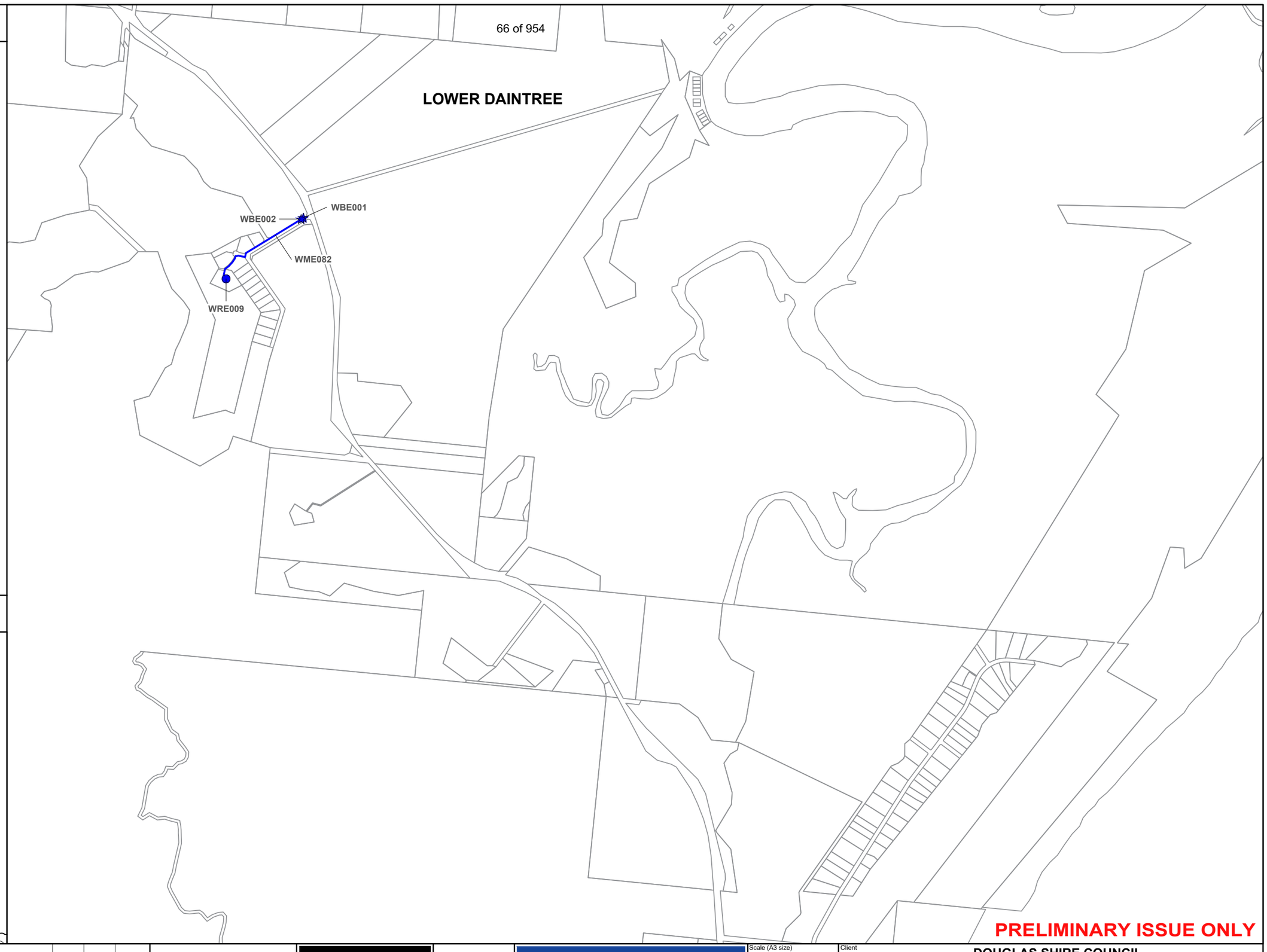
	Title: EXISTING WATER TRUNK INFRASTRUCTURE - GRID 1	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/08/17	1100-103	A

LEGEND

EXISTING WATER SUPPLY TRUNK INFRASTRUCTURE

- WATER MAIN
- PUMP STATION
- WATER TREATMENT PLANT
- RESERVOIR
- BORE
- RAW WATER INTAKE



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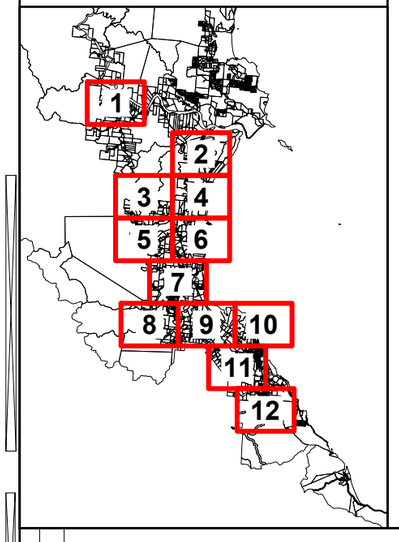

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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 2

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Scale (A3 size): 1:20000

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Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: EXISTING WATER TRUNK INFRASTRUCTURE - GRID 2

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/08/17	1100-104	A

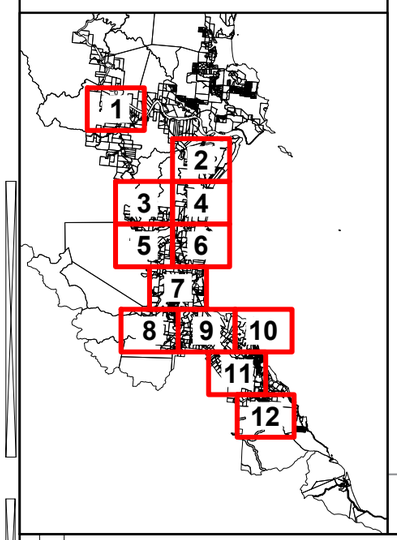
LEGEND

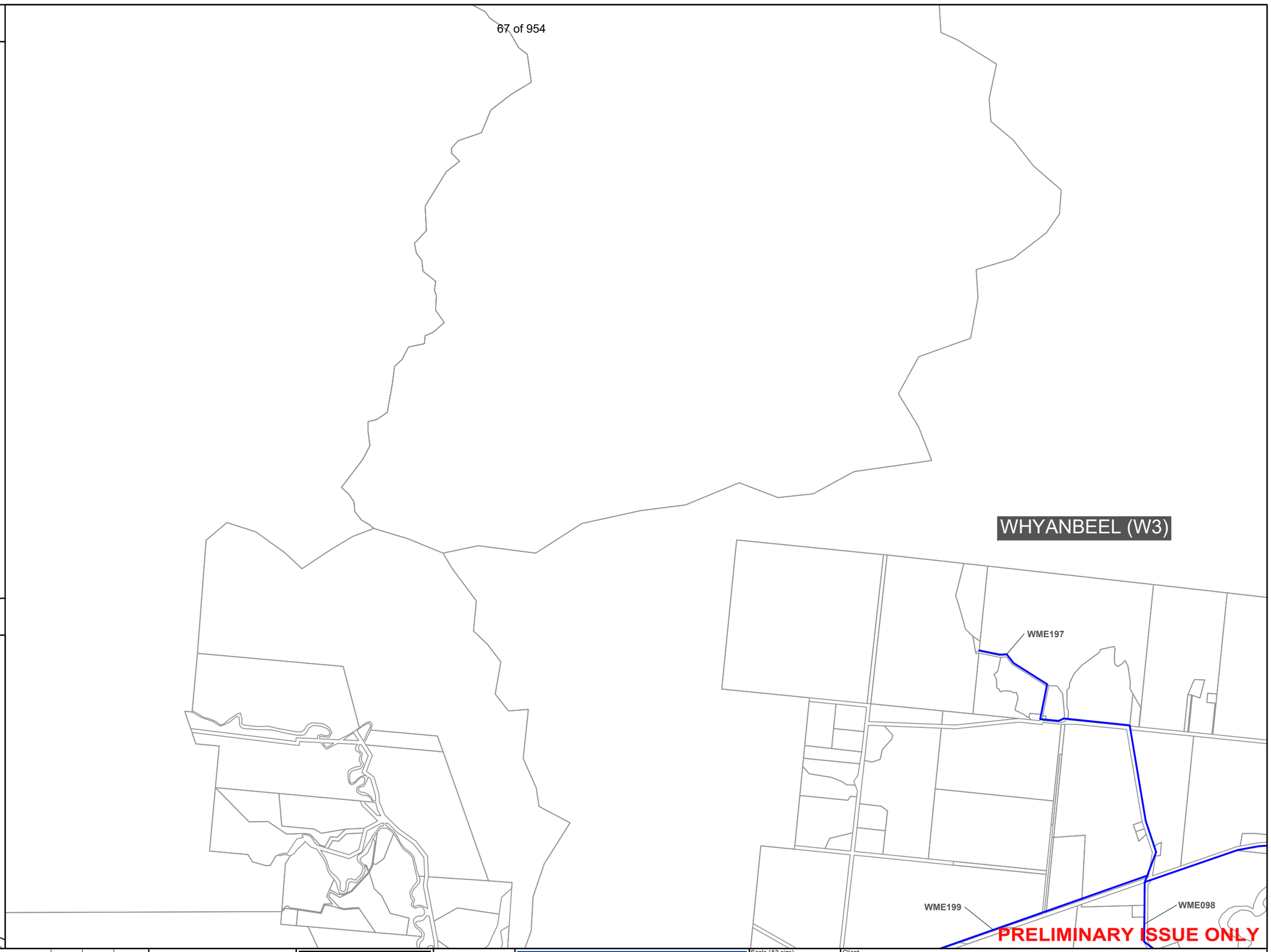
EXISTING WATER SUPPLY TRUNK INFRASTRUCTURE

- WATER MAIN
- PUMP STATION
- WATER TREATMENT PLANT
- RESERVOIR
- BORE
- RAW WATER INTAKE

N

KEY MAP





Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 3

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Scale (A3 size): 1:20000

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Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: EXISTING WATER TRUNK INFRASTRUCTURE - GRID 3

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/08/17	1100-105	A

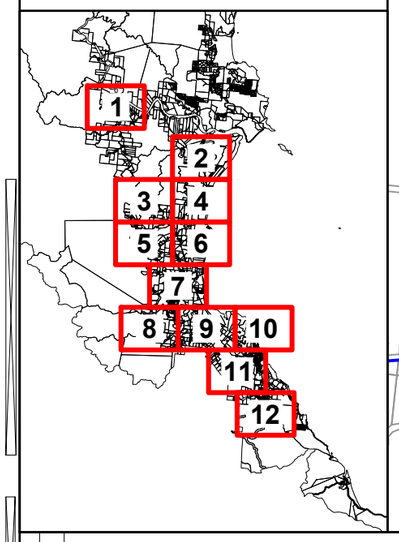
LEGEND

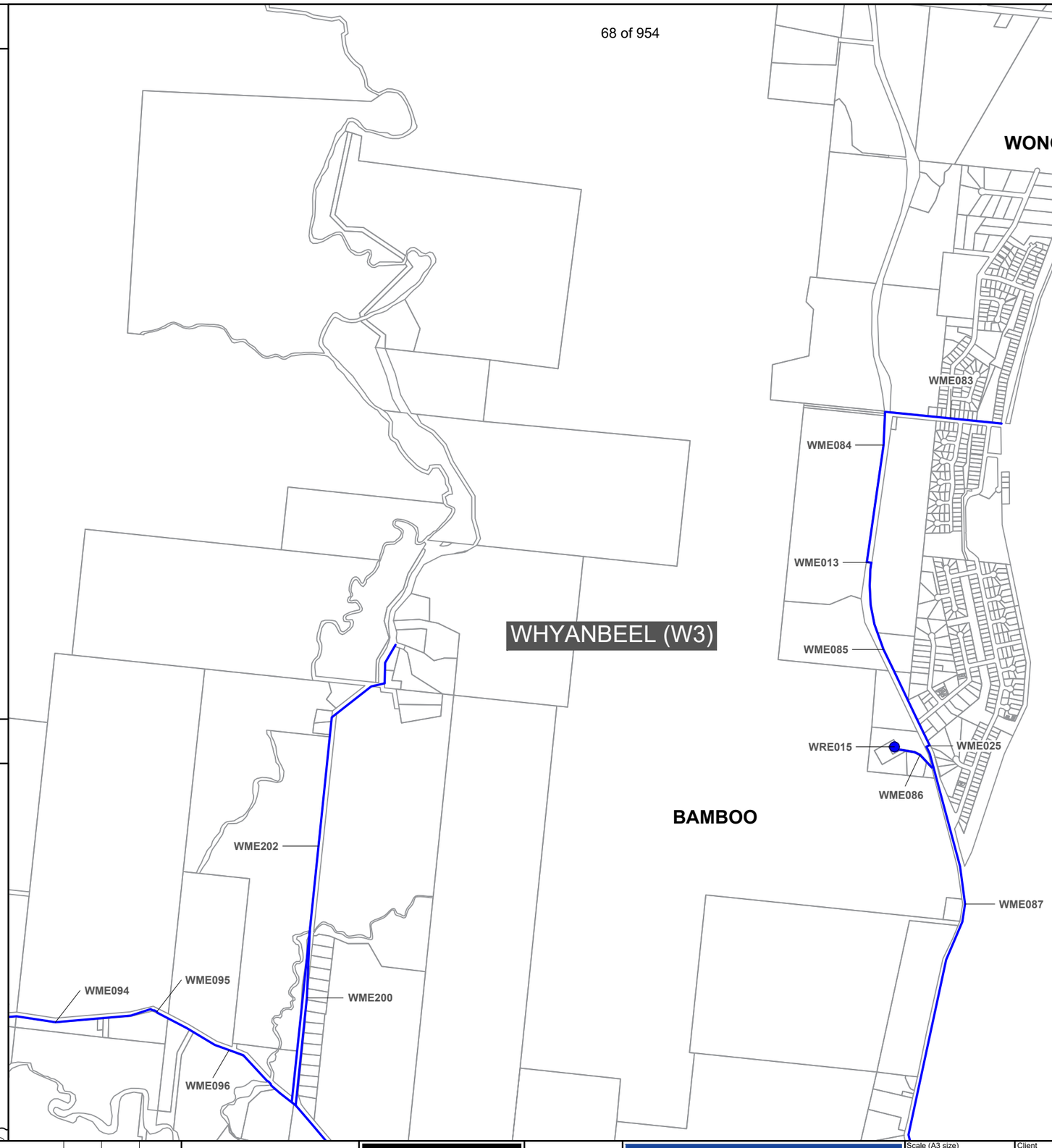
EXISTING WATER SUPPLY TRUNK INFRASTRUCTURE

- WATER MAIN
- PUMP STATION
- WATER TREATMENT PLANT
- RESERVOIR
- BORE
- RAW WATER INTAKE

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date
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GRID: 4

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Scale (A3 size)	1:20000
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Client	DOUGLAS SHIRE COUNCIL
Project	1100 DOUGLAS SHIRE COUNCIL LGIP
Title	EXISTING WATER TRUNK INFRASTRUCTURE - GRID 4

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/08/17	1100-106	A

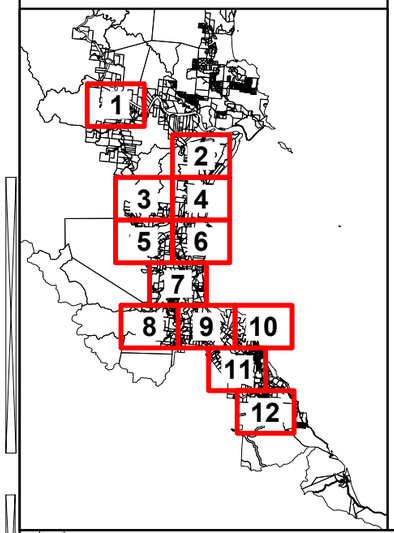
LEGEND

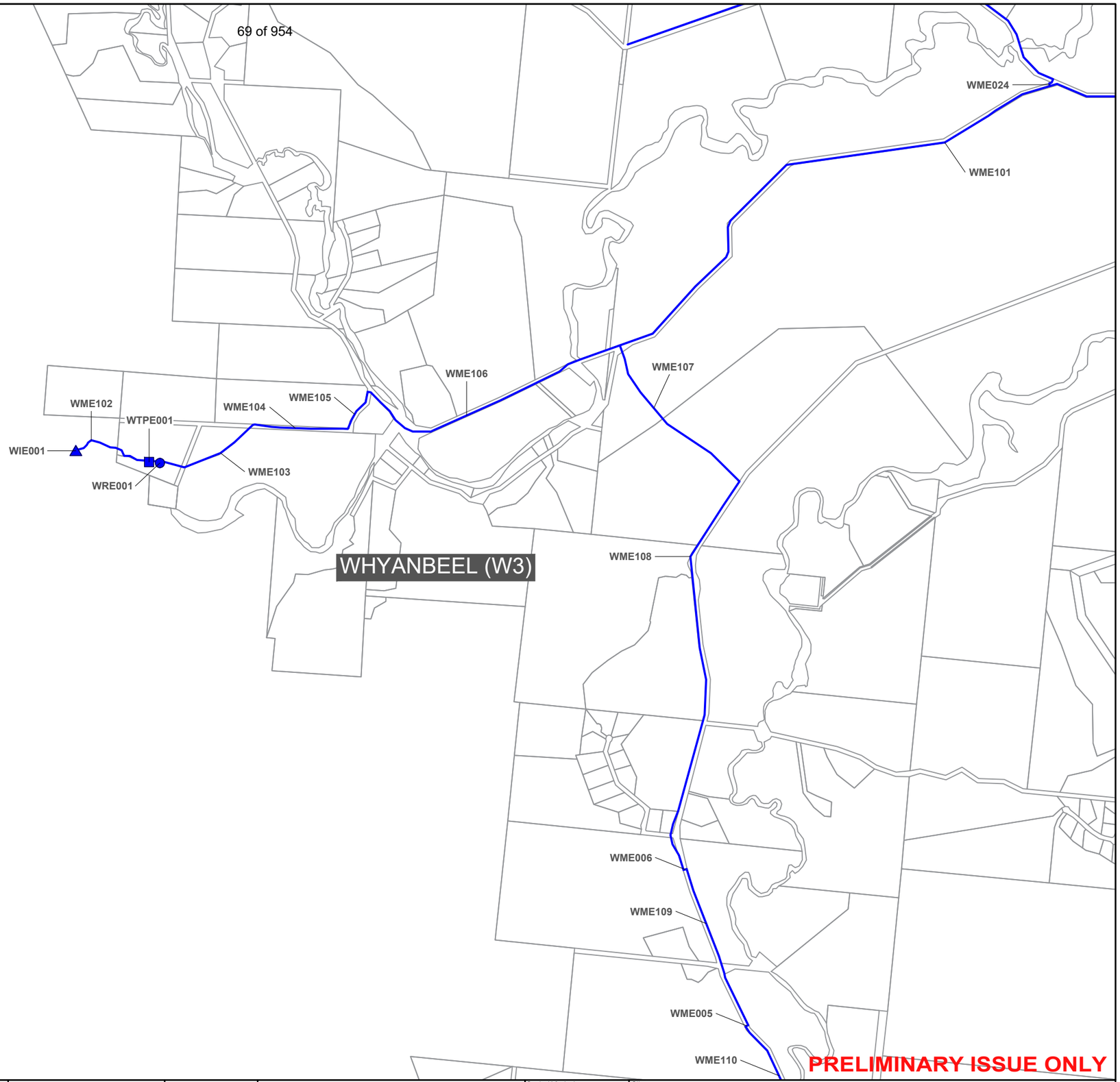
EXISTING WATER SUPPLY TRUNK INFRASTRUCTURE

- WATER MAIN
- PUMP STATION
- WATER TREATMENT PLANT
- RESERVOIR
- BORE
- RAW WATER INTAKE

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date
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GRID: 5

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Scale (A3 size)	Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
1:20000	IM	RR	RR	RR	R RANKINE		29/08/17	1100-107	A

Drawing is not to be used for construction unless approved.

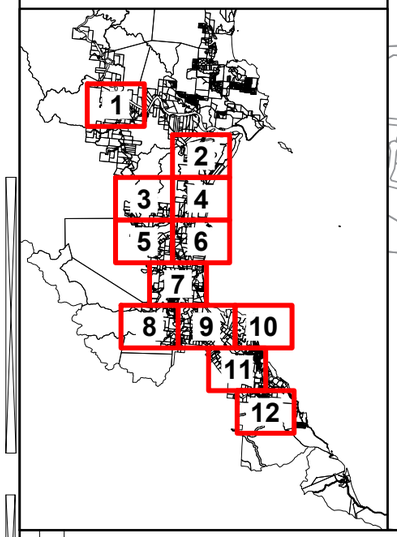
Client: DOUGLAS SHIRE COUNCIL
Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
Title: EXISTING WATER TRUNK INFRASTRUCTURE - GRID 5

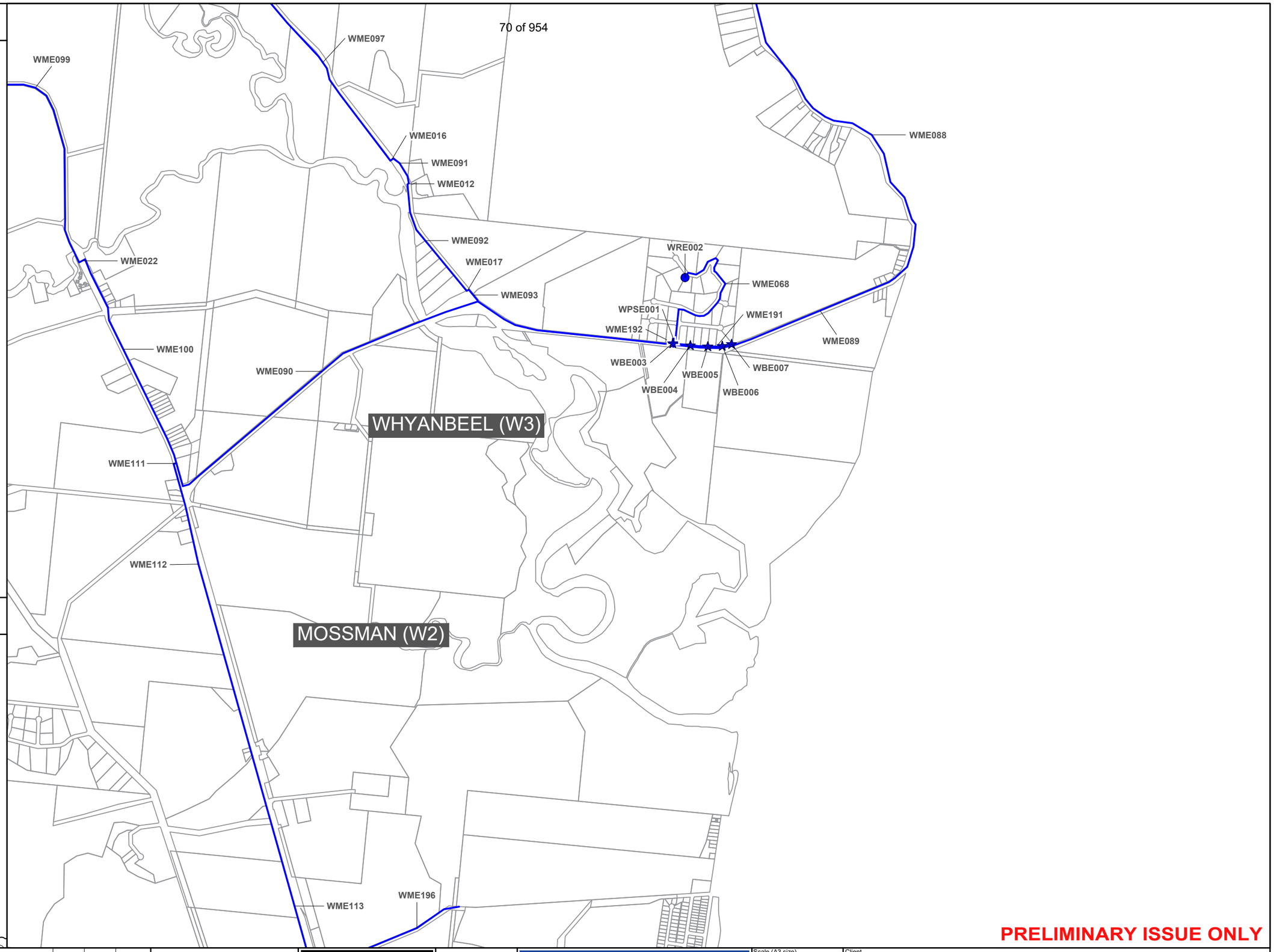
LEGEND

EXISTING WATER SUPPLY TRUNK INFRASTRUCTURE

- WATER MAIN
- PUMP STATION
- WATER TREATMENT PLANT
- RESERVOIR
- BORE
- RAW WATER INTAKE

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

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1:20000	DOUGLAS SHIRE COUNCIL	
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	Title: EXISTING WATER TRUNK INFRASTRUCTURE - GRID 6	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/08/17	1100-108	A

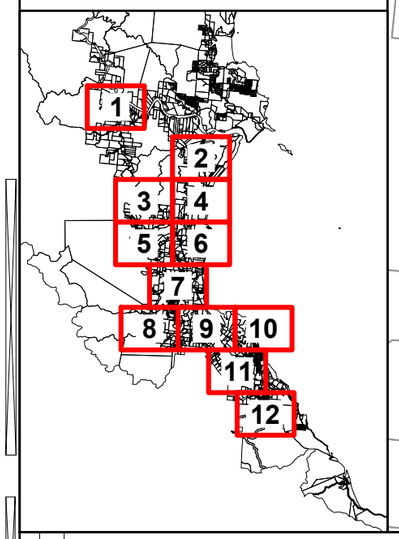
LEGEND

EXISTING WATER SUPPLY TRUNK INFRASTRUCTURE

- WATER MAIN
- PUMP STATION
- WATER TREATMENT PLANT
- RESERVOIR
- BORE
- RAW WATER INTAKE

N

KEY MAP



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WME113
WME196
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WRE003
NEWELL
WME115
WME001
WME002
WME067
WME114
WME116
WHYANBEEL (W3)
WME117
WME014
WME195
WME194
WME118
PORT DOUGLAS (W1)
MOSSMAN (W2)
WME119
WME120
WME065
WRE004
WME122
WME032
BONNIE DOON
COOYA BEACH
WME063
WME121
WME064
MOSSMAN GORGE
WME126
WME020
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WME037
WME127
WME073
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WME061
WME052

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Revisions					
No.	Description	Reviewed	Approved	Date
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GRID: 7

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Scale (A3 size)	1:20000
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Client	DOUGLAS SHIRE COUNCIL
Project	1100 DOUGLAS SHIRE COUNCIL LGIP
Title	EXISTING WATER TRUNK INFRASTRUCTURE - GRID 7

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/08/17	1100-109	A

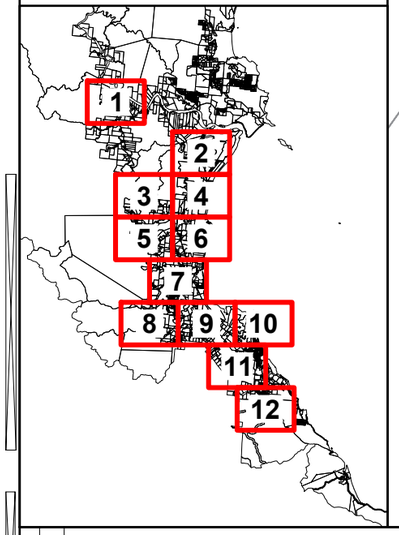
LEGEND

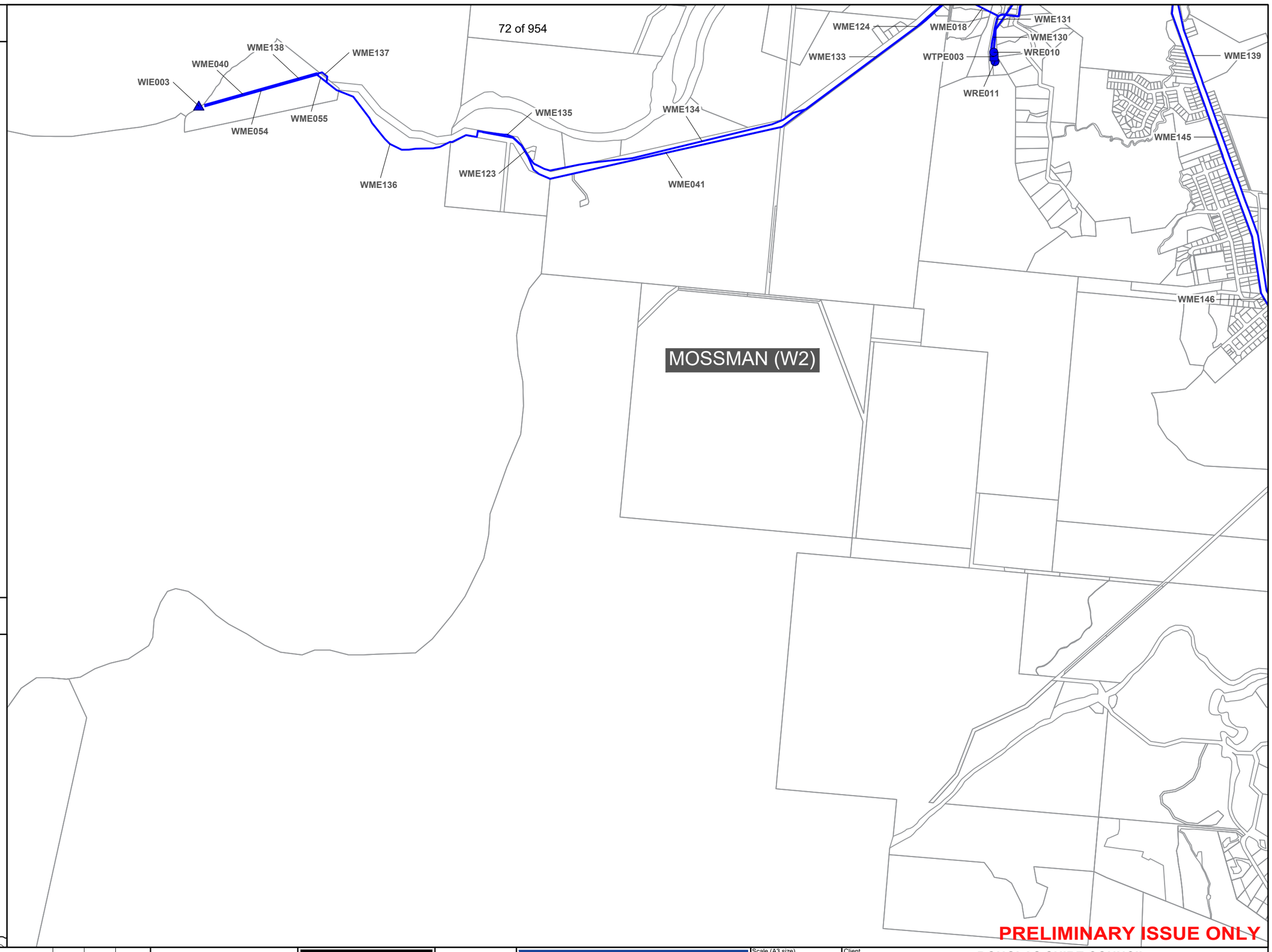
EXISTING WATER SUPPLY TRUNK INFRASTRUCTURE

- WATER MAIN
- PUMP STATION
- WATER TREATMENT PLANT
- RESERVOIR
- BORE
- RAW WATER INTAKE

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 8

DOUGLAS SHIRE COUNCIL
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Scale (A3 size)	Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
1:20000	IM	RR	RR	RR	R RANKINE		29/08/17	1100-110	A

Drawing is not to be used for construction unless approved.

Client: DOUGLAS SHIRE COUNCIL
Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
Title: EXISTING WATER TRUNK INFRASTRUCTURE - GRID 8

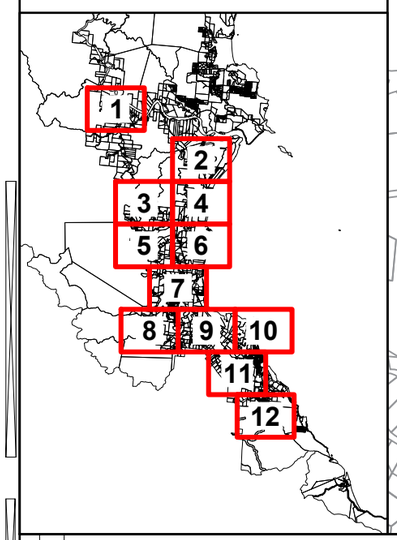
LEGEND

EXISTING WATER SUPPLY TRUNK INFRASTRUCTURE

- WATER MAIN
- PUMP STATION
- WATER TREATMENT PLANT
- RESERVOIR
- BORE
- RAW WATER INTAKE

N

KEY MAP



WME147
WME029
WME143
WME144
WME036
WME060
WME142
WME141
WME140
WME146
WME148
WME155
WME189
WME030
WME156
MOSSMAN (W2)
PORT DOUGLAS (W1)
WME042
WME157
WME149
WME188
WME158
WME159
WME038
WME075
WME150
WME186

PRELIMINARY ISSUE ONLY

Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 9

DOUGLAS SHIRE COUNCIL
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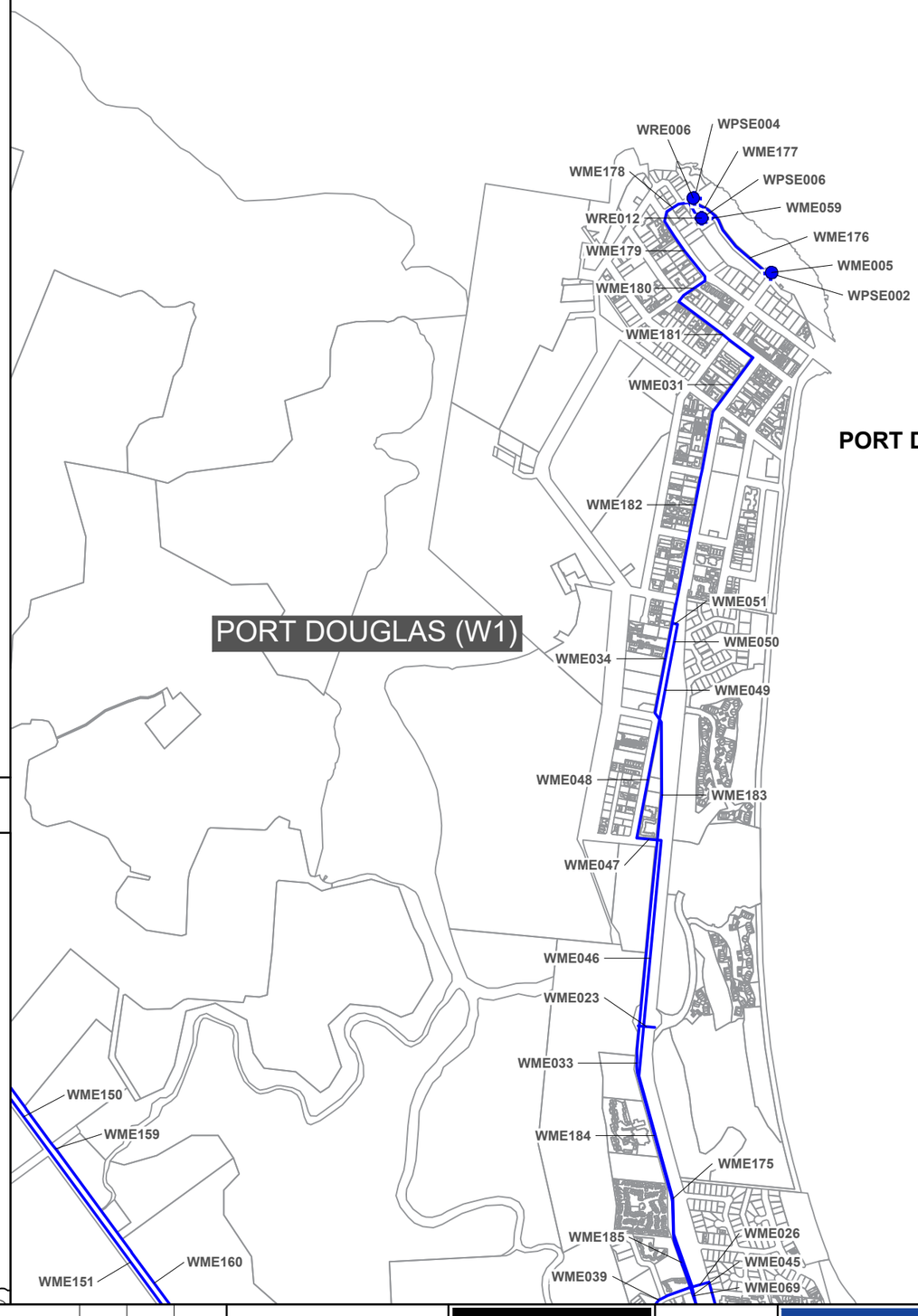
Scale (A3 size)	Client	
1:20000	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP	
	Title: EXISTING WATER TRUNK INFRASTRUCTURE - GRID 9	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/08/17	1100-111	A

LEGEND

EXISTING WATER SUPPLY TRUNK INFRASTRUCTURE

- WATER MAIN
- PUMP STATION
- WATER TREATMENT PLANT
- RESERVOIR
- BORE
- RAW WATER INTAKE



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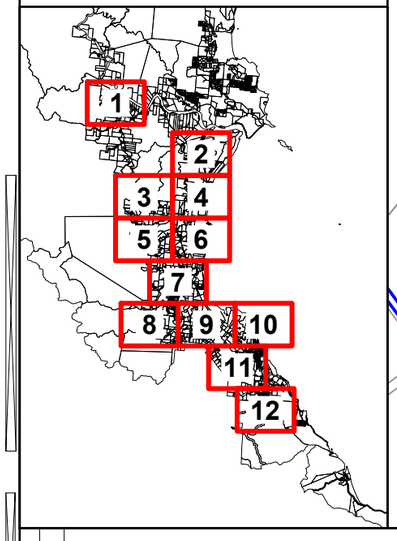

PRELIMINARY ISSUE ONLY

Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 10

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Scale (A3 size): 1:20000

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Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: EXISTING WATER TRUNK INFRASTRUCTURE - GRID 10

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/08/17	1100-112	A

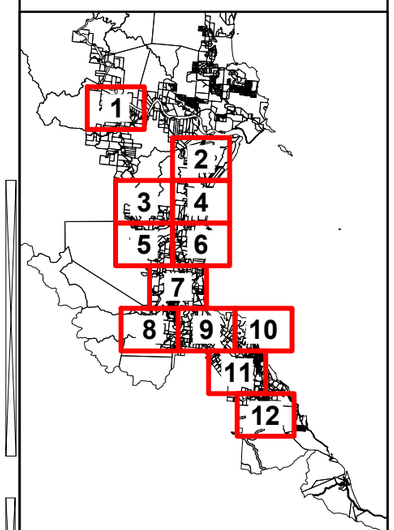
LEGEND

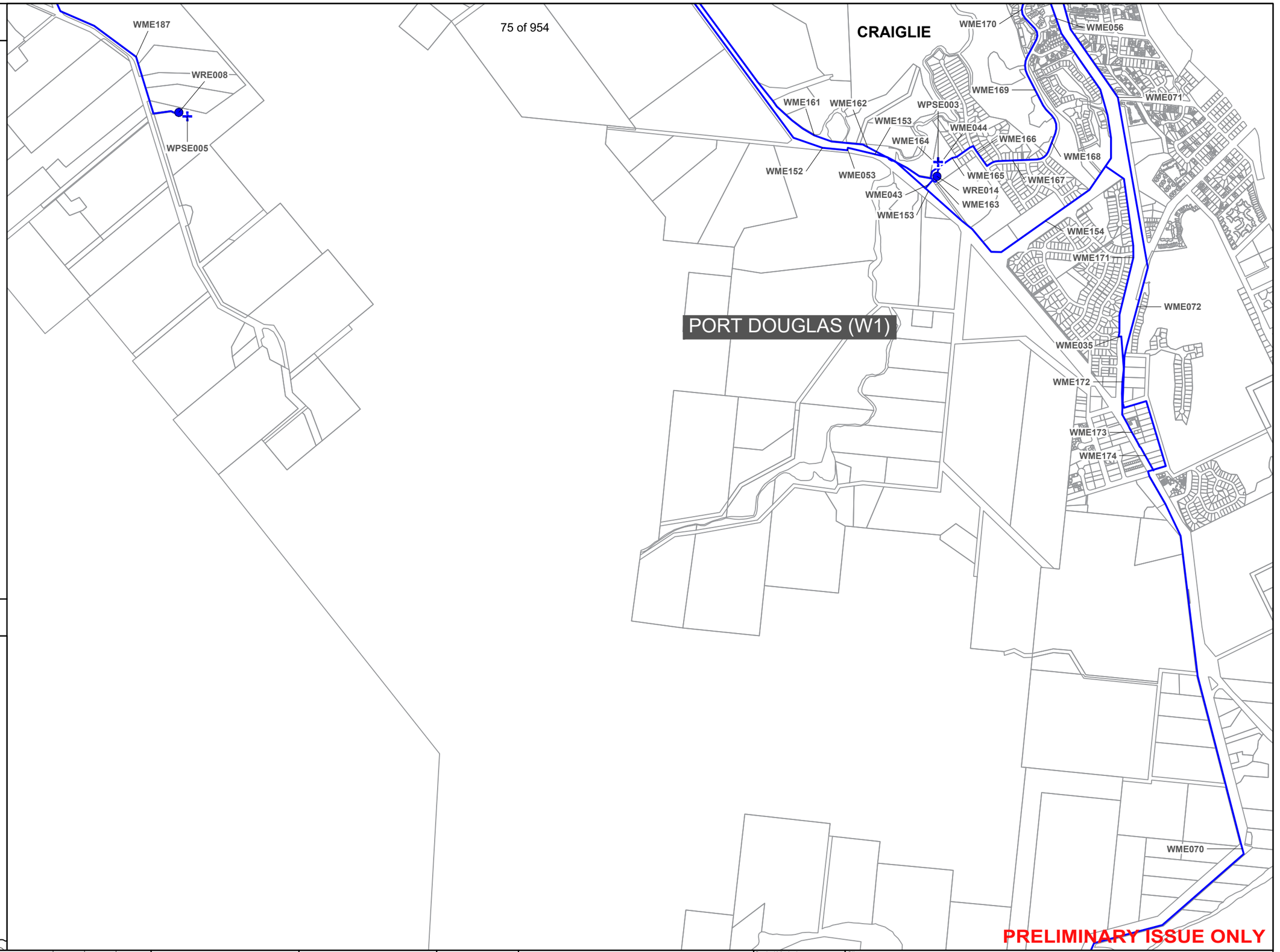
EXISTING WATER SUPPLY TRUNK INFRASTRUCTURE

- WATER MAIN
- PUMP STATION
- WATER TREATMENT PLANT
- RESERVOIR
- BORE
- RAW WATER INTAKE

N

KEY MAP





PRELIMINARY ISSUE ONLY

Revisions					
A	ISSUED FOR REVIEW				
No.	Description	Reviewed	Approved	Date	

GRID: 11

DOUGLAS SHIRE COUNCIL
P.O. BOX 723, MOSSMAN, QLD 4873
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Scale (A3 size)	Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
1:20000	IM	RR	RR	RR	R RANKINE		29/08/17	1100-113	A

Drawing is not to be used for construction unless approved.

Client: DOUGLAS SHIRE COUNCIL
Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
Title: EXISTING WATER TRUNK INFRASTRUCTURE - GRID 11

LEGEND

EXISTING WATER SUPPLY TRUNK INFRASTRUCTURE

- WATER MAIN
- PUMP STATION
- WATER TREATMENT PLANT
- RESERVOIR
- BORE
- RAW WATER INTAKE

WME070

WME193

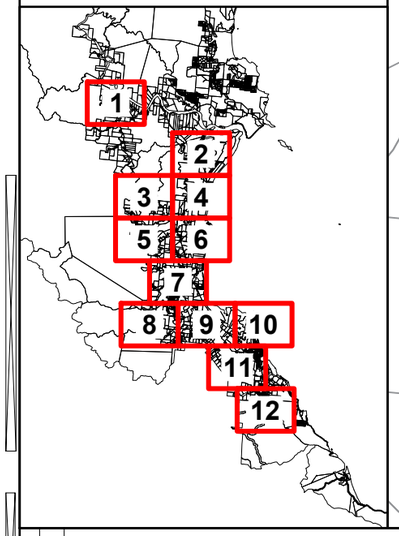
WRE016

WRE007

PORT DOUGLAS (W1)

N

KEY MAP



PRELIMINARY ISSUE ONLY

Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 12

DOUGLAS SHIRE COUNCIL
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Scale (A3 size): 1:20000

Drawing is not to be used for construction unless approved.

Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: EXISTING WATER TRUNK INFRASTRUCTURE - GRID 12

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/08/17	1100-114	A

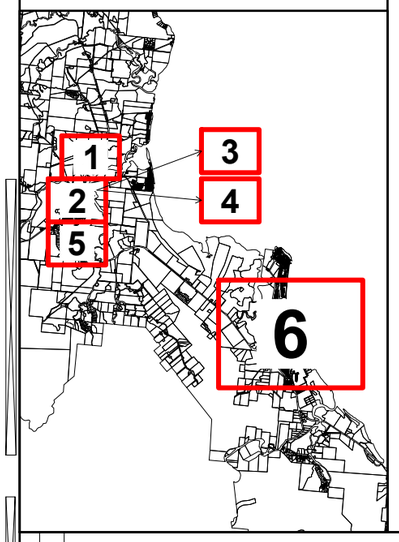
LEGEND

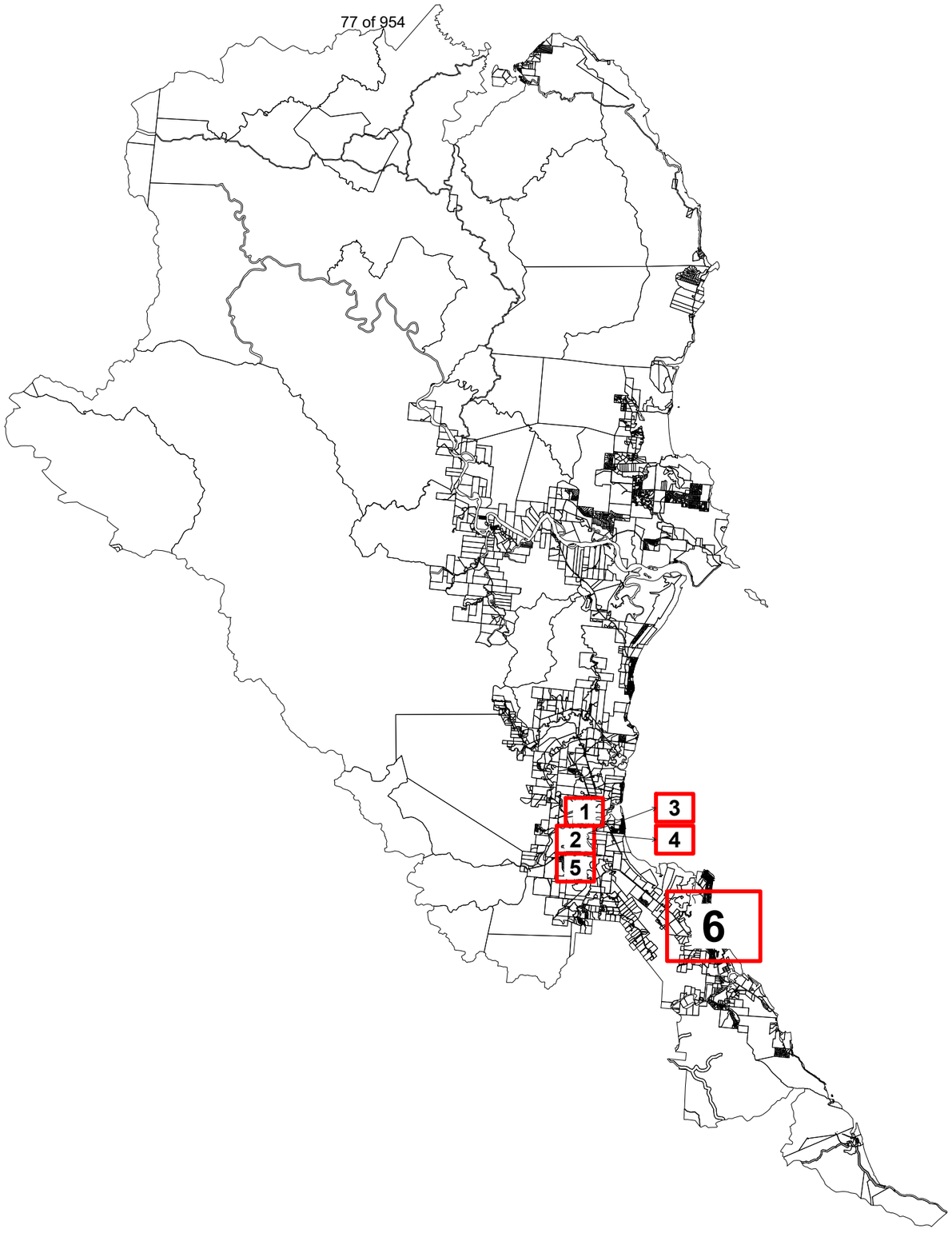
RECYCLED WATER SUPPLY TRUNK INFRASTRUCTURE

WATER MAIN

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

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Scale (A3 size)	Client							
1:360000	DOUGLAS SHIRE COUNCIL							
	Project							
	1100 DOUGLAS SHIRE COUNCIL LGIP							
Drawing is not to be used for construction unless approved.	Title							
	EXISTING RECYCLED WATER TRUNK INFRASTRUCTURE KEY MAP							
Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/08/17	1100-115	A

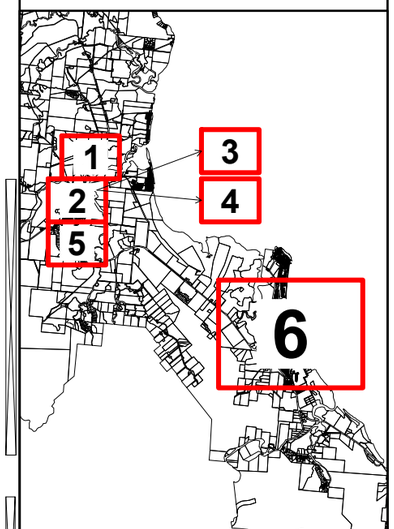
LEGEND

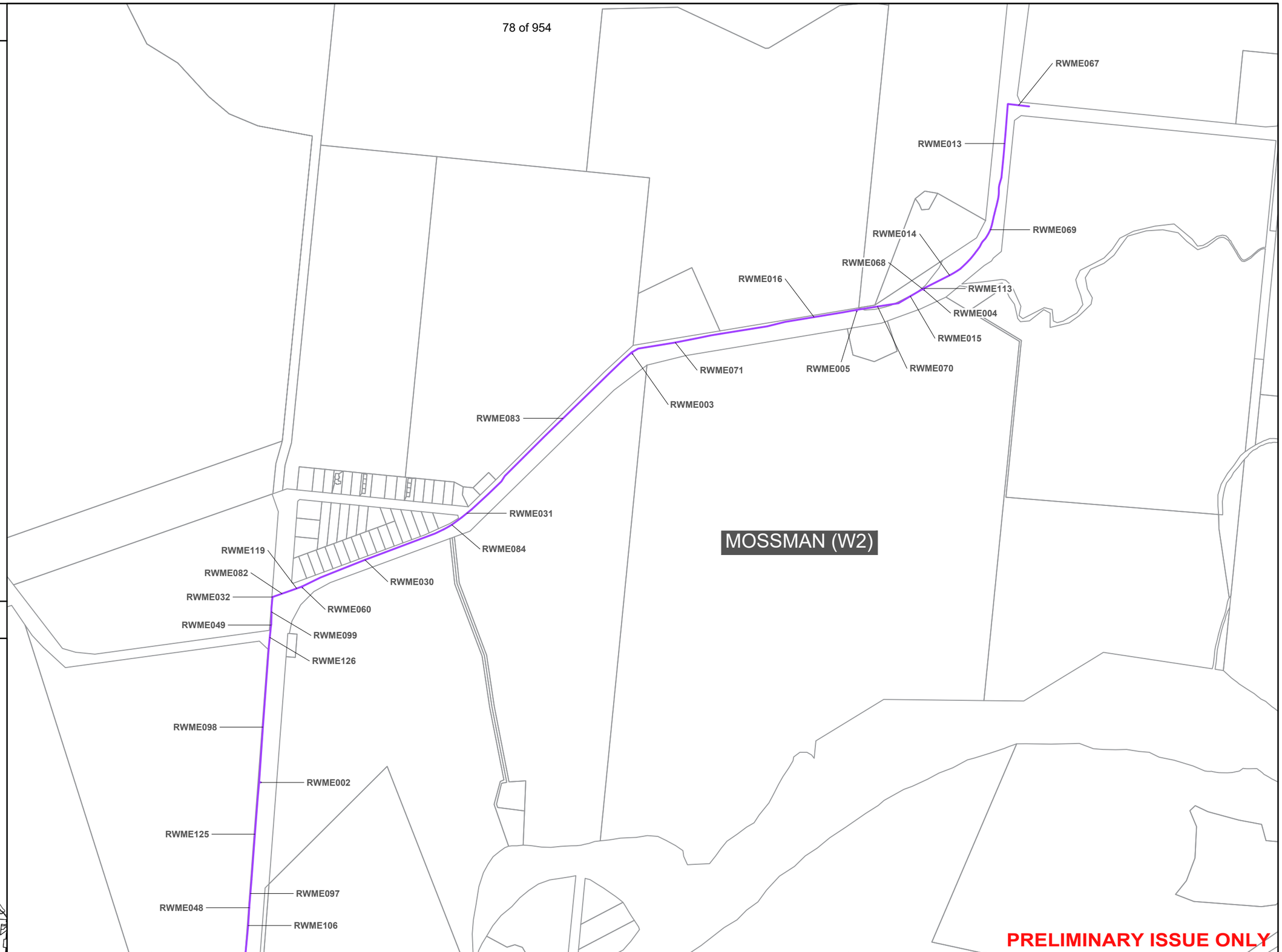
RECYCLED WATER SUPPLY TRUNK INFRASTRUCTURE

WATER MAIN

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 1

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Scale (A3 size)	Client	
1:8000	DOUGLAS SHIRE COUNCIL	
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	Title: EXISTING RECYCLED WATER TRUNK INFRASTRUCTURE - GRID 1	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/08/17	1100-116	A

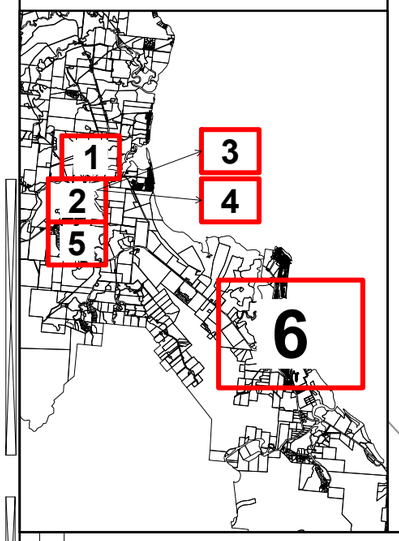
LEGEND

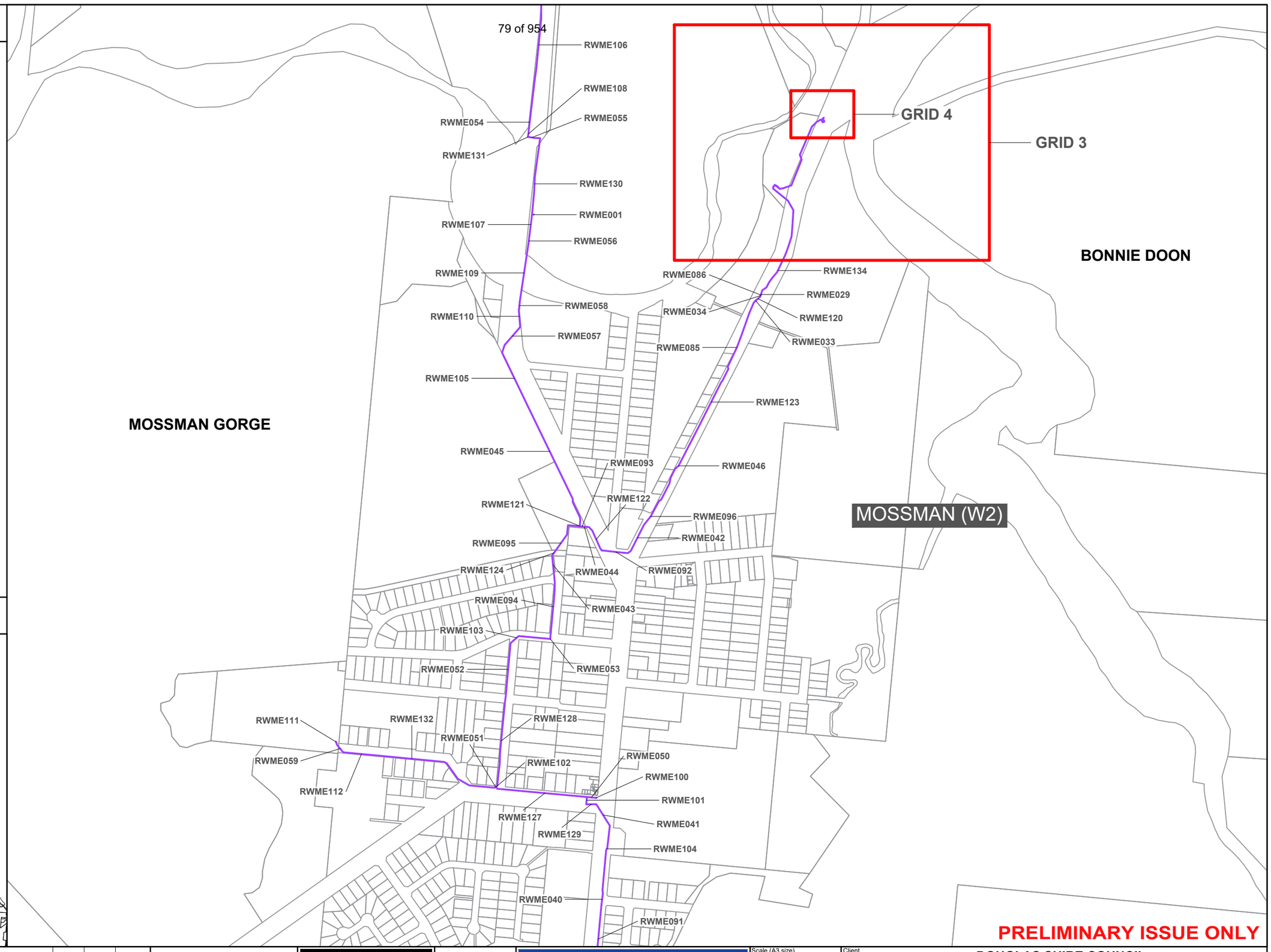
RECYCLED WATER SUPPLY TRUNK INFRASTRUCTURE

WATER MAIN

N

KEY MAP





PRELIMINARY ISSUE ONLY

Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 2

DOUGLAS SHIRE COUNCIL
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Scale (A3 size)	1:8000
	Drawing is not to be used for construction unless approved.
Client	DOUGLAS SHIRE COUNCIL
Project	1100 DOUGLAS SHIRE COUNCIL LGIP
Title	EXISTING RECYCLED WATER TRUNK INFRASTRUCTURE - GRID 2

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/08/17	1100-117	A

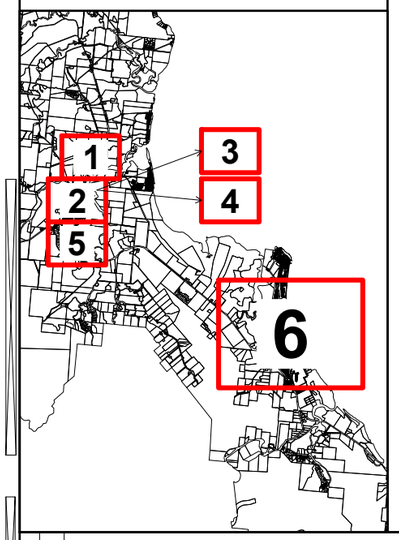
LEGEND

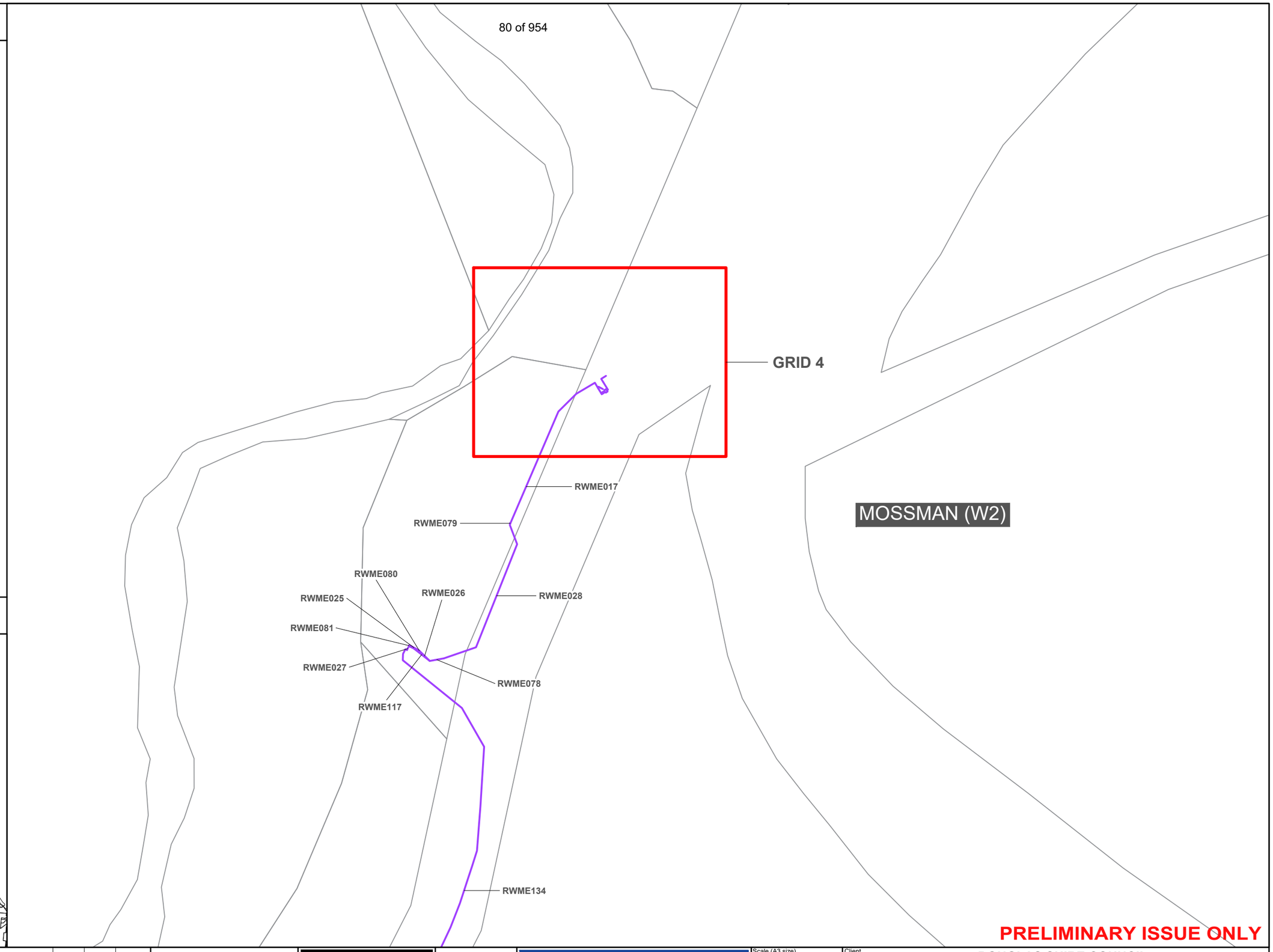
RECYCLED WATER SUPPLY TRUNK INFRASTRUCTURE

WATER MAIN

N

KEY MAP





PRELIMINARY ISSUE ONLY

Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 3

DOUGLAS SHIRE COUNCIL
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Scale (A3 size): 1:2000

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Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: EXISTING RECYCLED WATER TRUNK INFRASTRUCTURE - GRID 3

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/08/17	1100-118	A

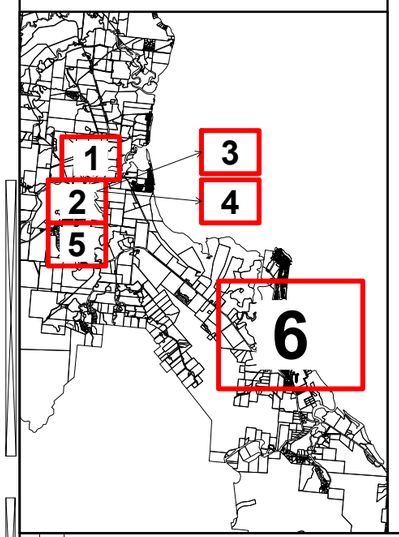
LEGEND

RECYCLED WATER SUPPLY TRUNK INFRASTRUCTURE

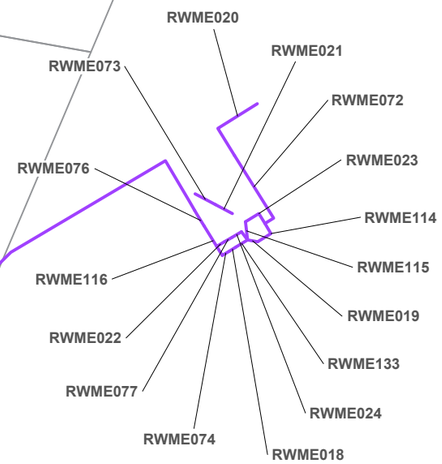
WATER MAIN

N

KEY MAP



MOSSMAN (W2)



PRELIMINARY ISSUE ONLY

Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 4

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Scale (A3 size): 1:400

Drawing is not to be used for construction unless approved.

Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: EXISTING RECYCLED WATER TRUNK INFRASTRUCTURE - GRID 4

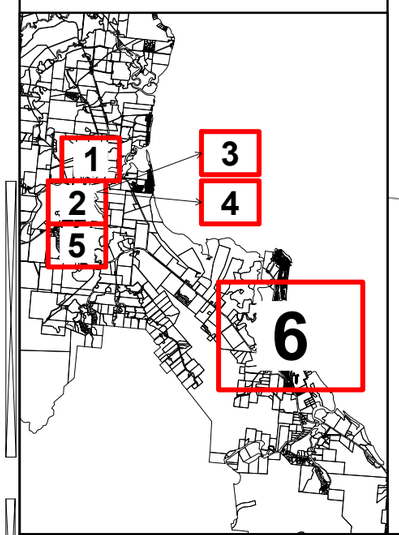
Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/08/17	1100-119	A

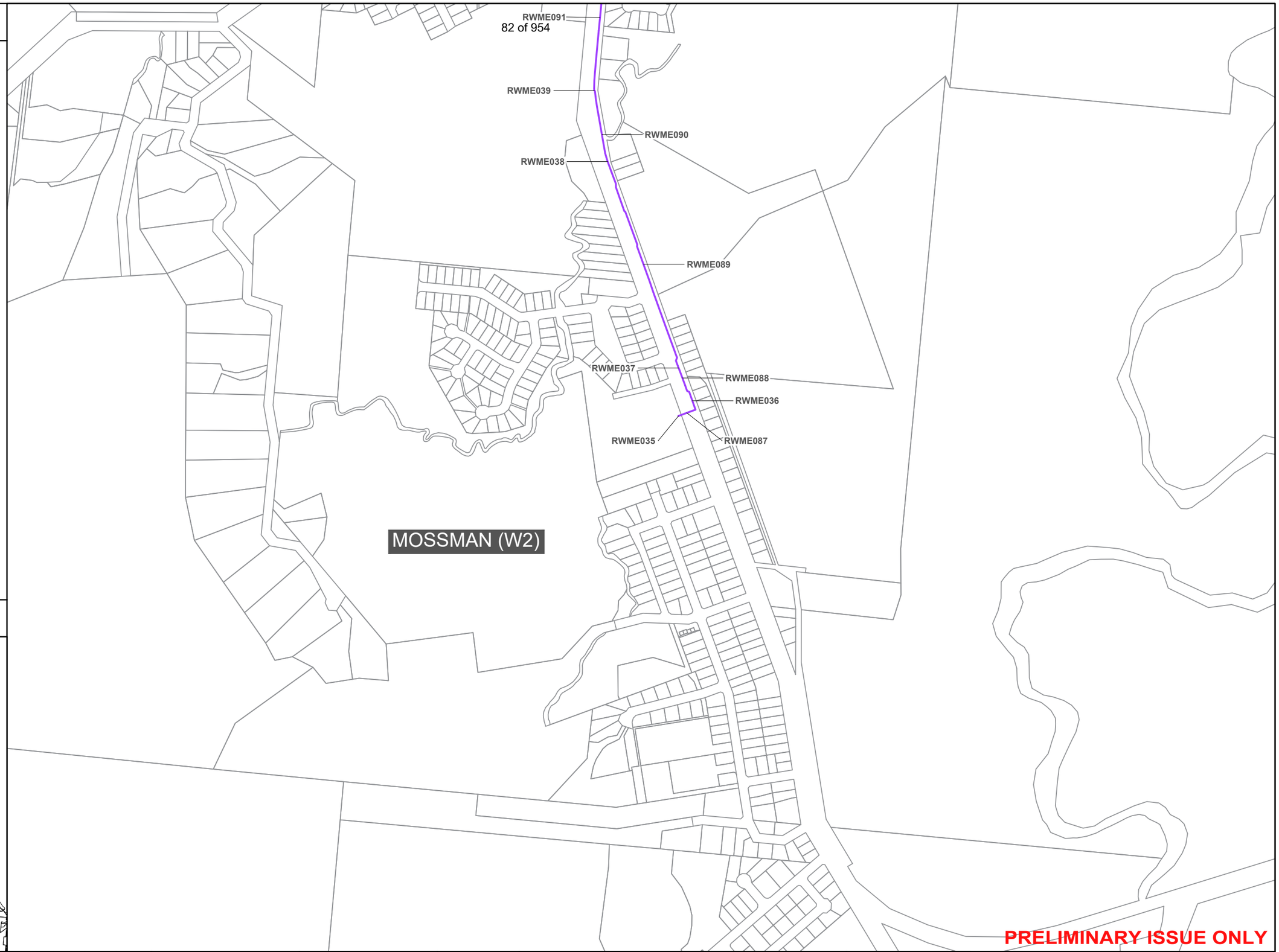
LEGEND

RECYCLED WATER SUPPLY TRUNK INFRASTRUCTURE

WATER MAIN

KEY MAP





PRELIMINARY ISSUE ONLY

Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 5

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Scale (A3 size)	Client	
1:8000	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP	
	Title: EXISTING RECYCLED WATER TRUNK INFRASTRUCTURE - GRID 5	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/08/17	1100-120	A

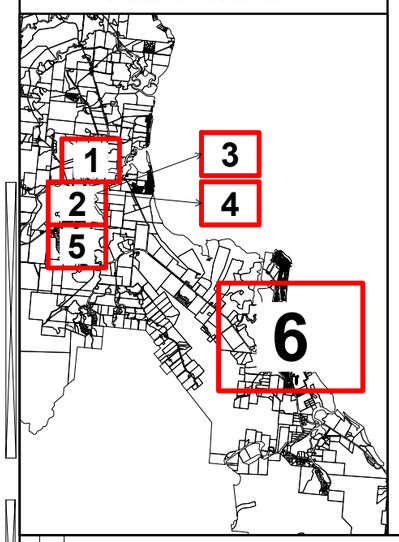
LEGEND

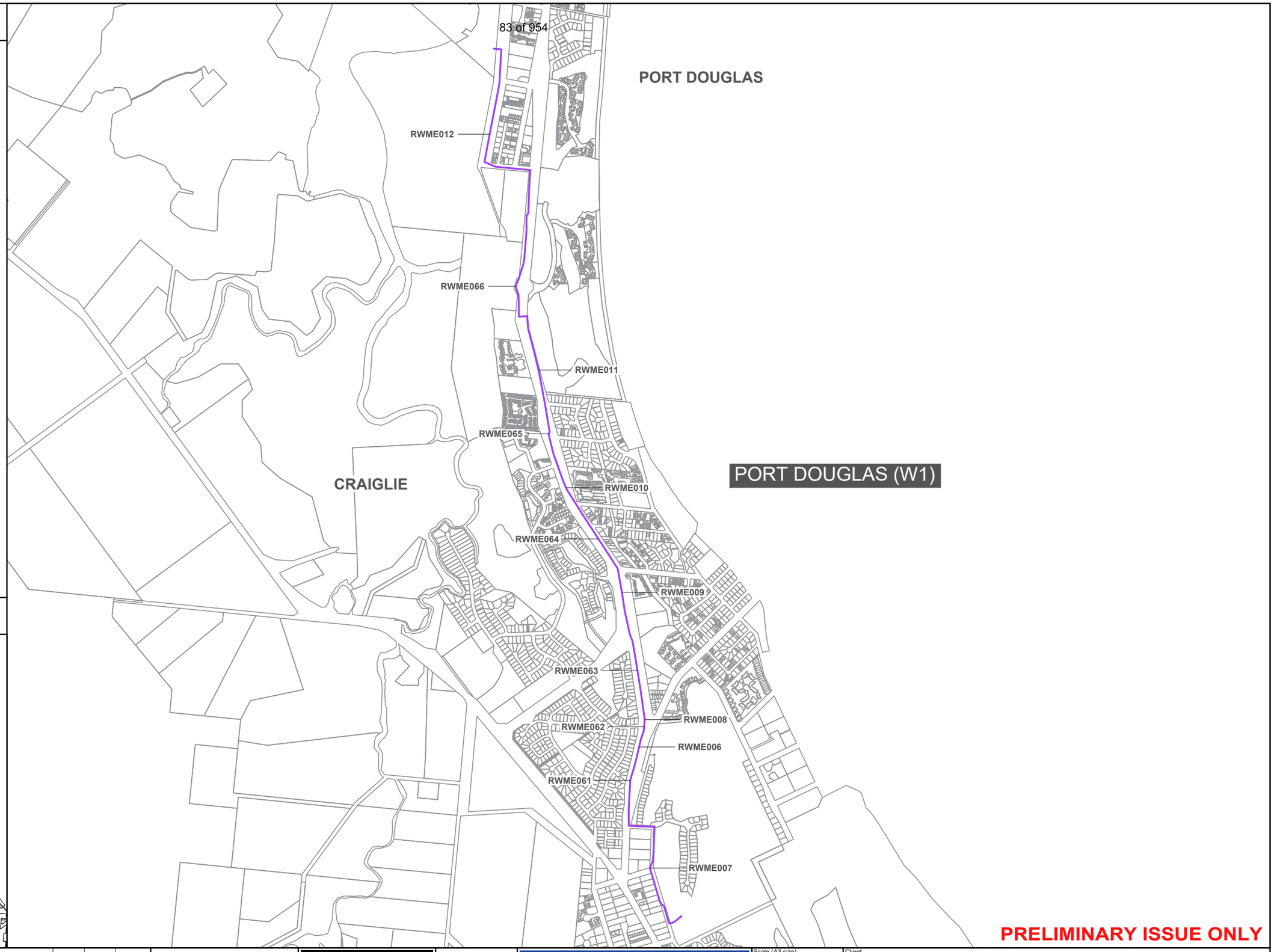
RECYCLED WATER SUPPLY TRUNK INFRASTRUCTURE

WATER MAIN

N

KEY MAP





PORT DOUGLAS (W1)

PRELIMINARY ISSUE ONLY

Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 6

DOUGLAS SHIRE COUNCIL
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Scale (A3 size)	1:20000
	Drawing is not to be used for construction unless approved.
Client	DOUGLAS SHIRE COUNCIL
Project	1100 DOUGLAS SHIRE COUNCIL LGIP
Title	EXISTING RECYCLED WATER TRUNK INFRASTRUCTURE - GRID 6

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/08/17	1100-121	A

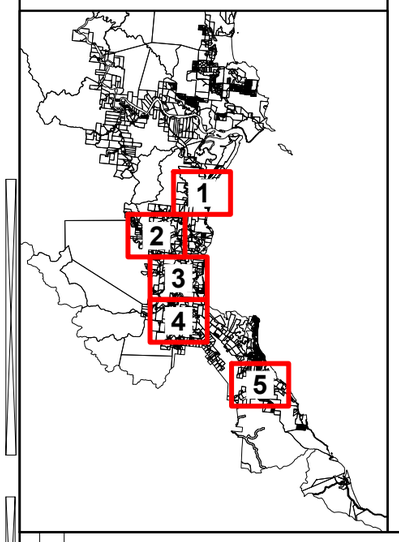
LEGEND

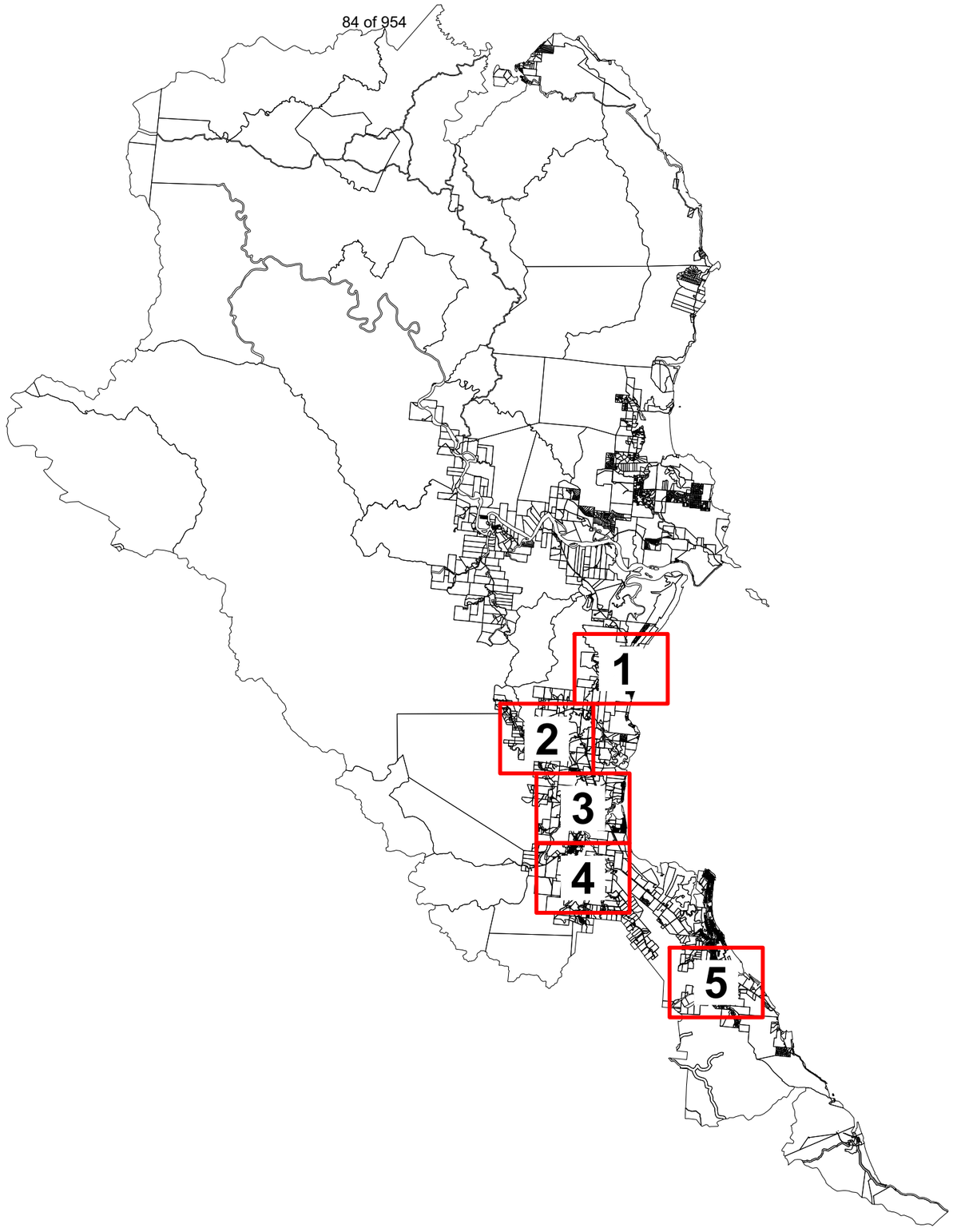
FUTURE WATER SUPPLY TRUNK INFRASTRUCTURE

- WATER MAIN
- RESERVOIR
- RESERVOIR
- RAW WATER INTAKE

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

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Scale (A3 size)	Client								
1:360000	DOUGLAS SHIRE COUNCIL								
	Project								
Drawing is not to be used for construction unless approved.	1100 DOUGLAS SHIRE COUNCIL LGIP								
	Title								
	FUTURE WATER TRUNK INFRASTRUCTURE KEY MAP								
Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision	
IM	RR	RR	RR	R RANKINE		29/08/17	1100-122	A	

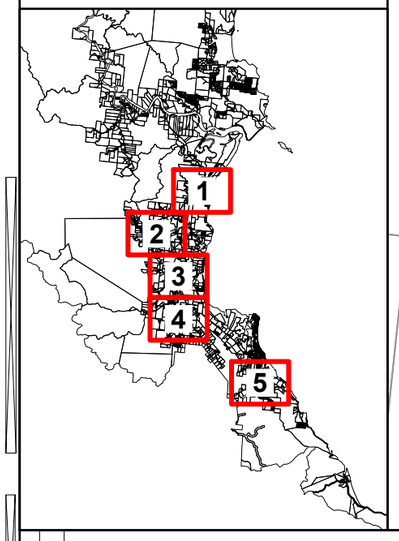
LEGEND

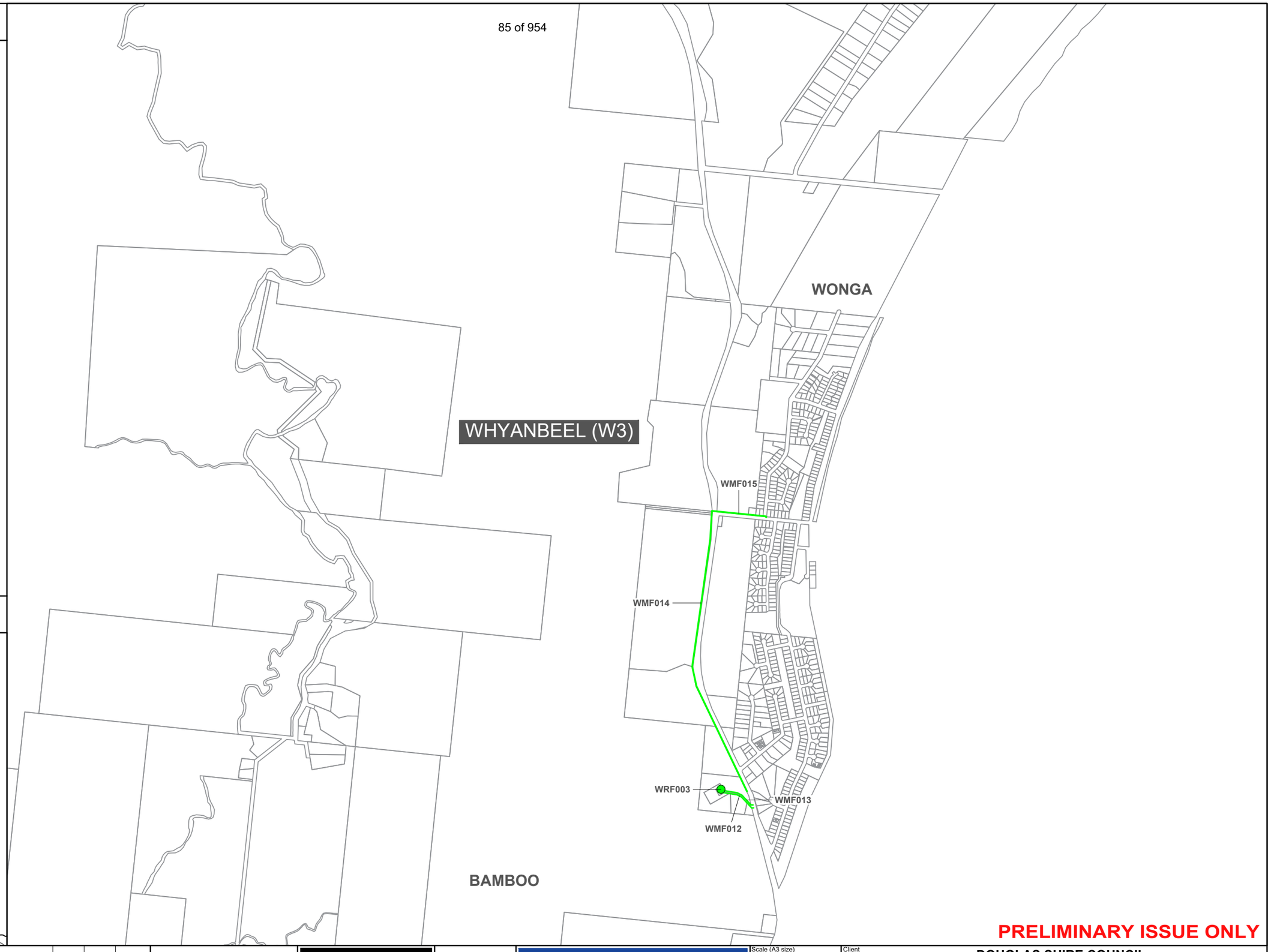
FUTURE WATER SUPPLY TRUNK INFRASTRUCTURE

- WATER MAIN
- RESERVOIR
- RESERVOIR
- RAW WATER INTAKE

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 1

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Scale (A3 size)	Client	
1:20000	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP	
	Title: FUTURE WATER TRUNK INFRASTRUCTURE - GRID 1	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/08/17	1100-123	A

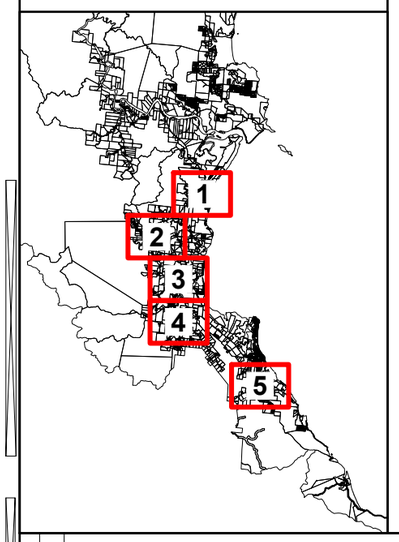
LEGEND

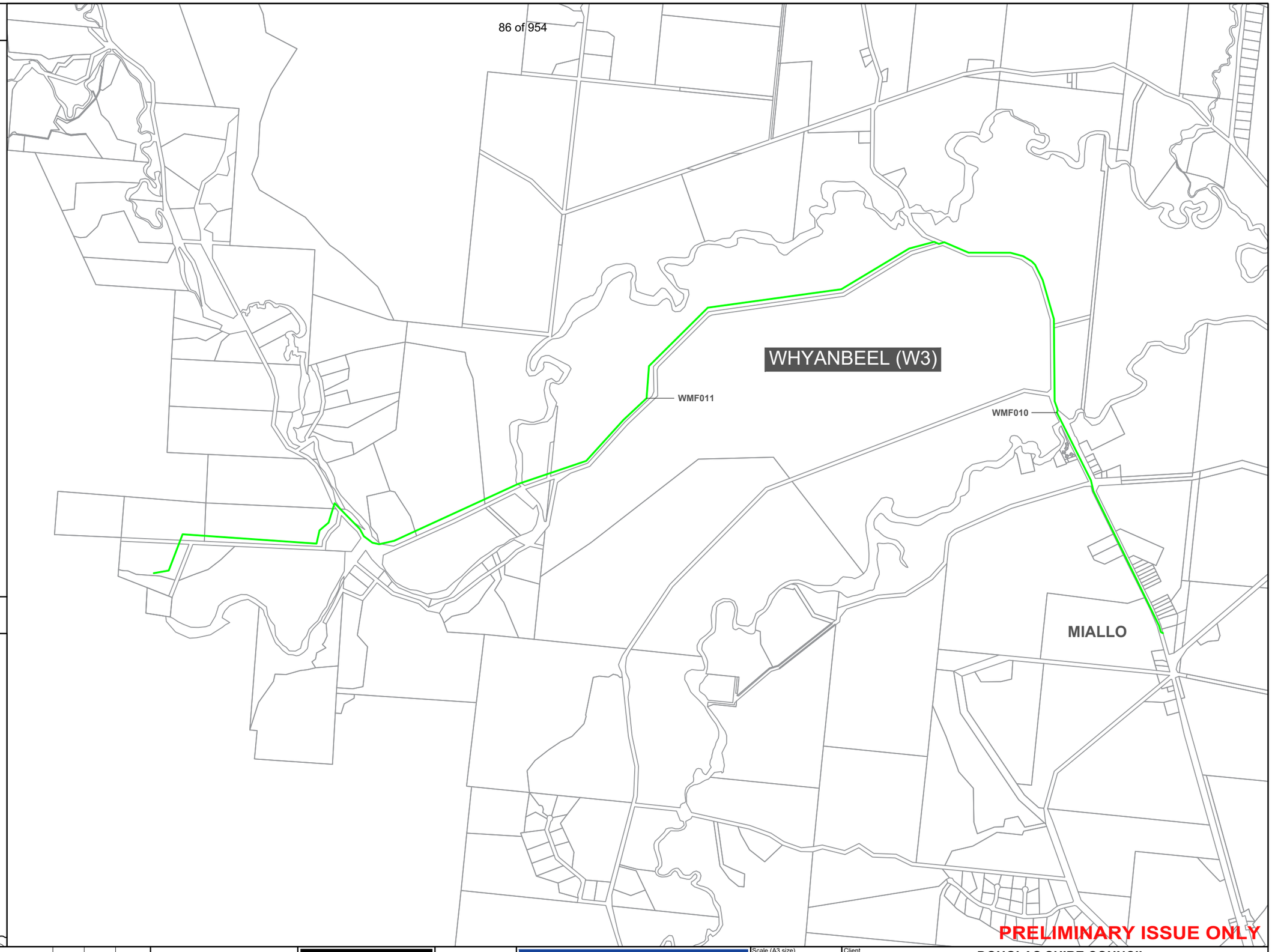
FUTURE WATER SUPPLY TRUNK INFRASTRUCTURE

- WATER MAIN
- RESERVOIR
- RESERVOIR
- RAW WATER INTAKE

N

KEY MAP





PRELIMINARY ISSUE ONLY

Revisions					
A	ISSUED FOR REVIEW				
No.	Description	Reviewed	Approved	Date	

GRID: 2

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Scale (A3 size) 1:20000

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Client: DOUGLAS SHIRE COUNCIL
Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
Title: FUTURE WATER TRUNK INFRASTRUCTURE - GRID 2

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/08/17	1100-124	A

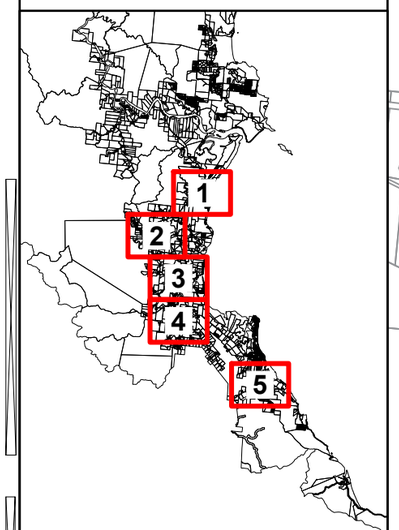
LEGEND

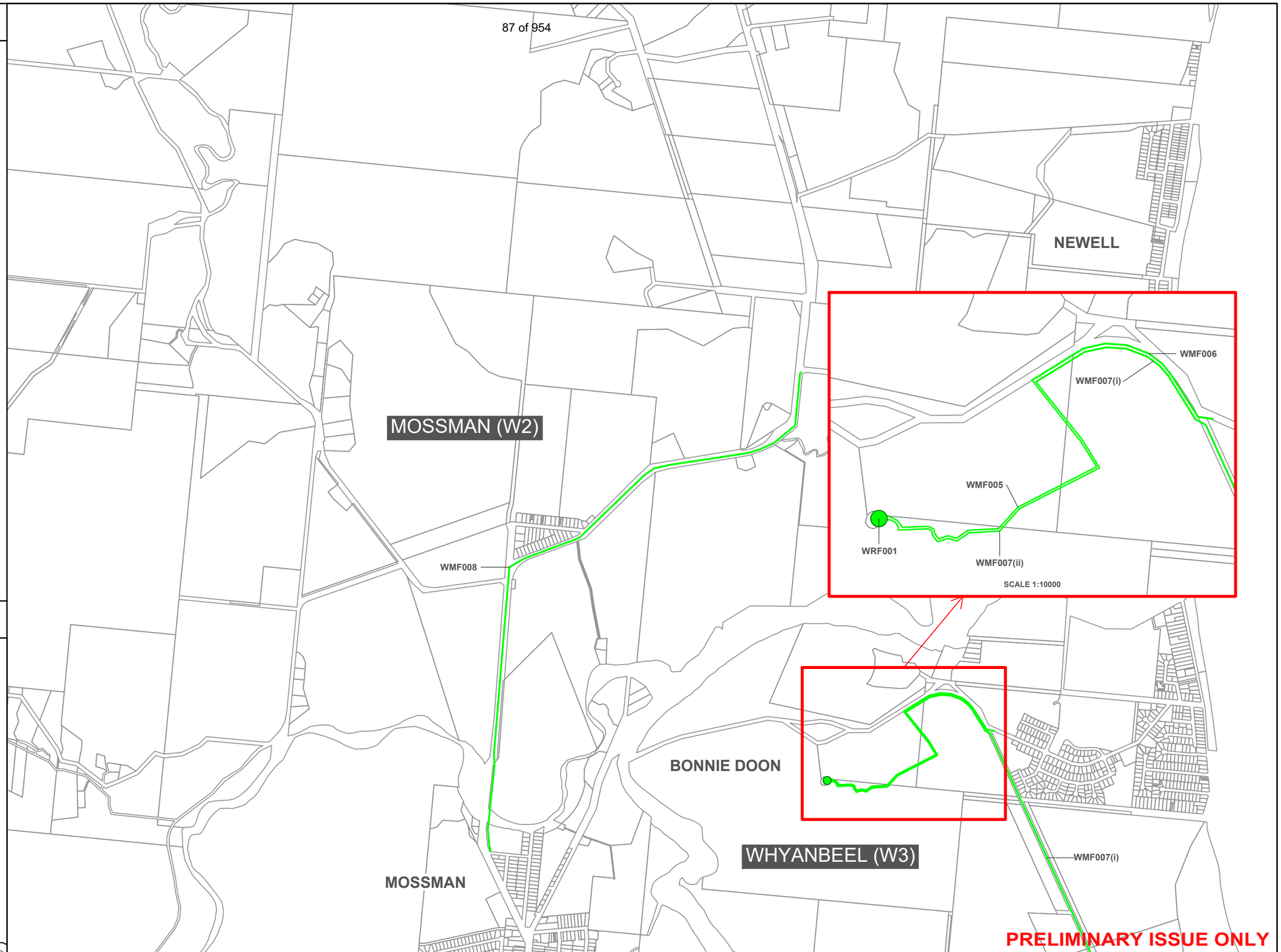
FUTURE WATER SUPPLY TRUNK INFRASTRUCTURE

- WATER MAIN
- RESERVOIR
- RESERVOIR
- RAW WATER INTAKE

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 3

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Scale (A3 size)	Client	
1:20000		DOUGLAS SHIRE COUNCIL
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	Title	FUTURE WATER TRUNK INFRASTRUCTURE - GRID 3

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/08/17	1100-125	A

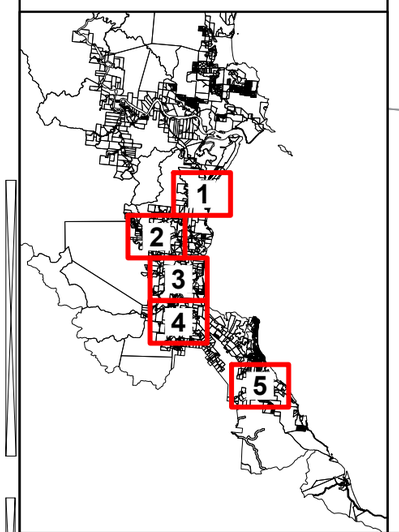
LEGEND

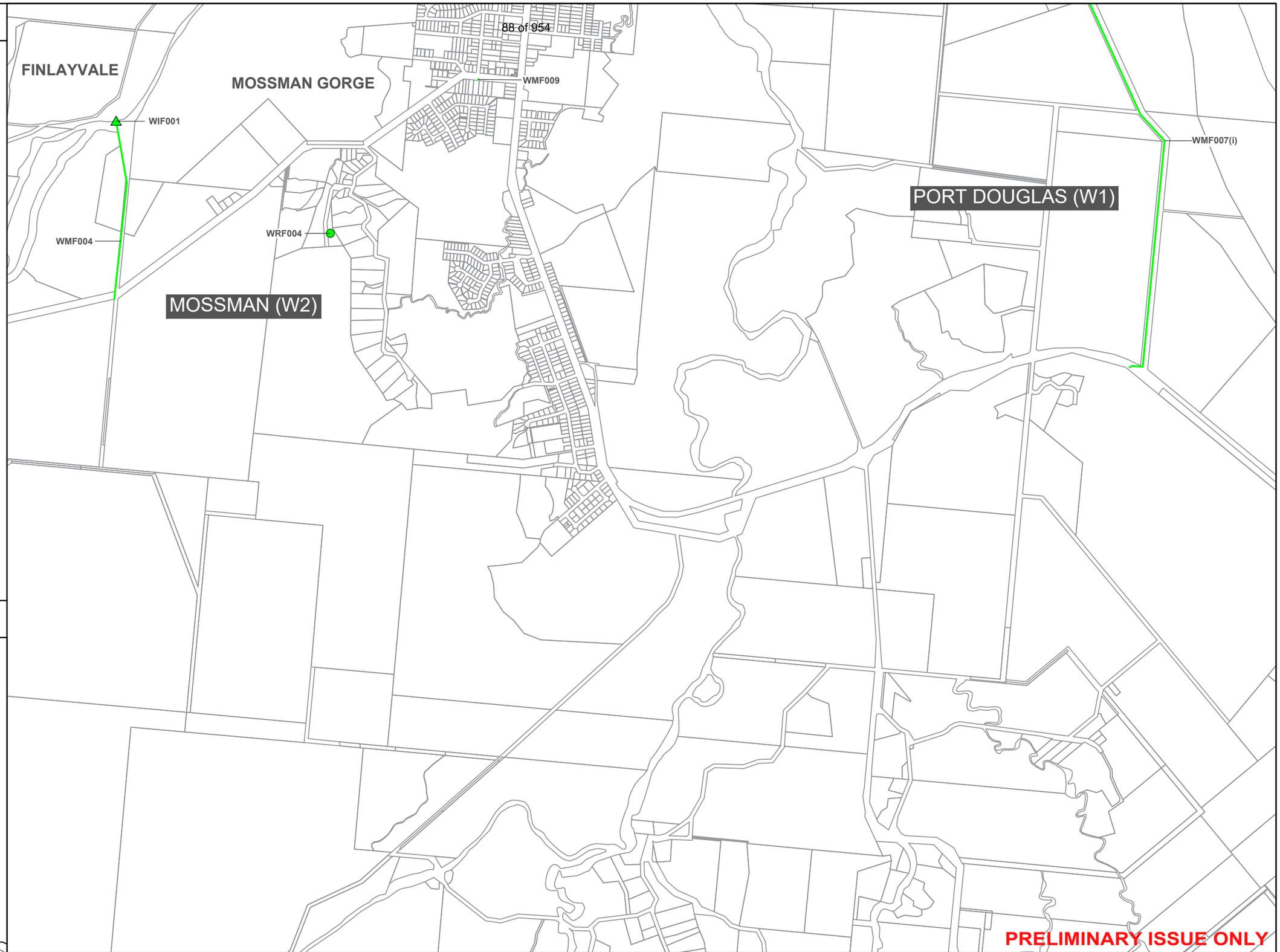
FUTURE WATER SUPPLY TRUNK INFRASTRUCTURE

- WATER MAIN
- RESERVOIR
- RESERVOIR
- RAW WATER INTAKE

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 4

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Scale (A3 size)	Client	DOUGLAS SHIRE COUNCIL
1:20000	Project	1100 DOUGLAS SHIRE COUNCIL LGIP
Drawing is not to be used for construction unless approved.	Title	FUTURE WATER TRUNK INFRASTRUCTURE - GRID 4

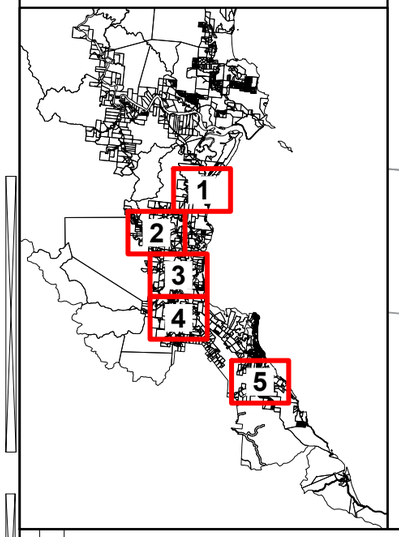
Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/08/17	1100-126	A

LEGEND

FUTURE WATER SUPPLY TRUNK INFRASTRUCTURE

- WATER MAIN
- RESERVOIR
- RESERVOIR
- RAW WATER INTAKE

KEY MAP



CRAIGLIE

PORT DOUGLAS (W1)

WMF001
WMF002
WMF002
WMF003(i)
WMF003(ii)
WMF003(iii)

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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 5

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Scale (A3 size)	Client	
1:20000	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project	1100 DOUGLAS SHIRE COUNCIL LGIP
	Title	FUTURE WATER TRUNK INFRASTRUCTURE - GRID 5

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/08/17	1100-127	A

DOUGLAS SHIRE COUNCIL

Trinity Engineering and Consulting

LOCAL GOVERNMENT INFRASTRUCTURE PLANS (SEWERAGE TRUNK INFRASTRUCTURE)

for

DOUGLAS SHIRE COUNCIL

SCHEDULE OF PROJECT DRAWINGS

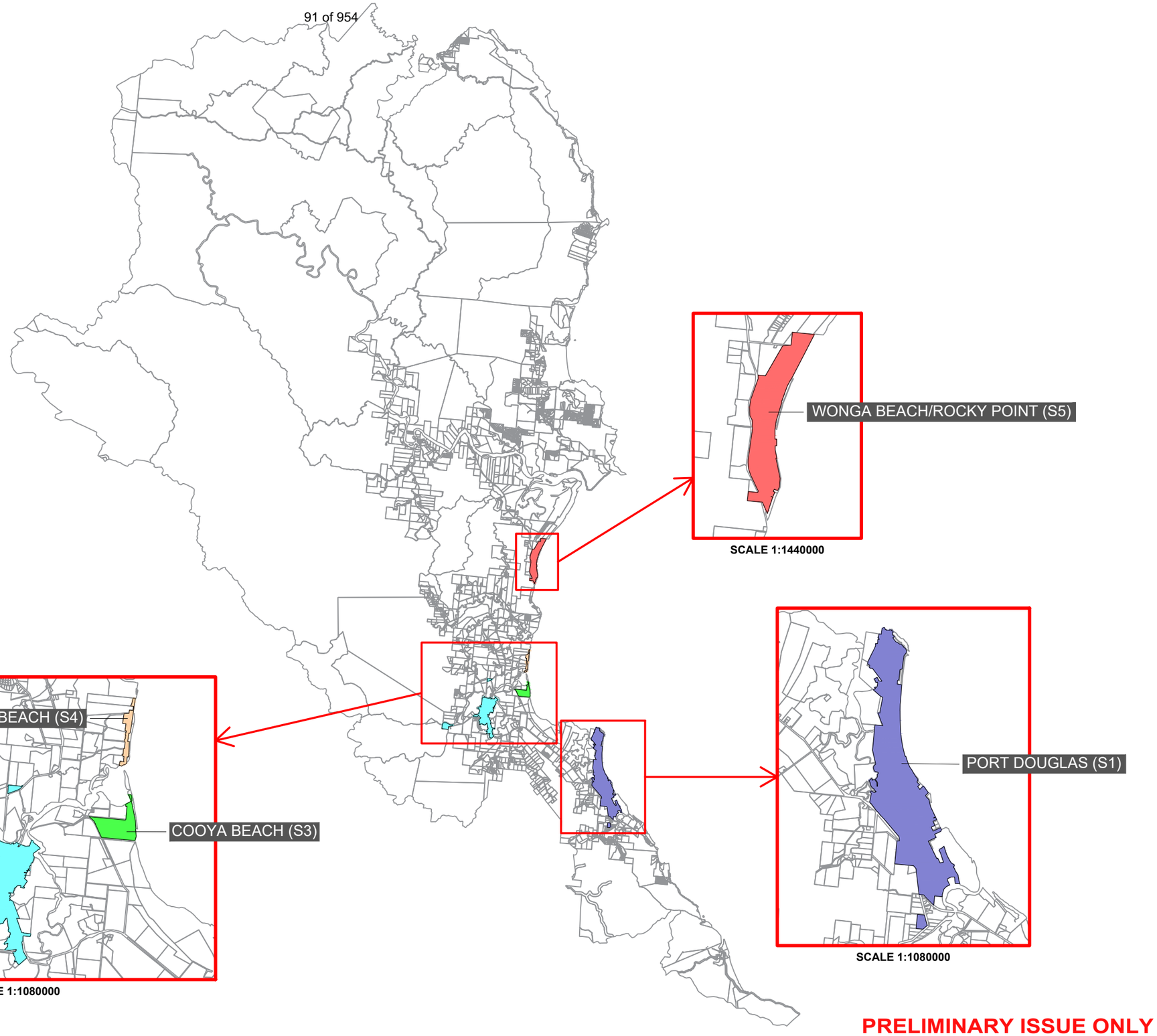
PRELIMINARY ISSUE ONLY

LEGEND

SEWERAGE INFRASTRUCTURE CHARGES CATCHMENT AREAS

- PORT DOUGLAS (S1)
- MOSSMAN (S2)
- COOYA BEACH (S3)
- NEWELL BEACH (S4)
- WONGA BEACH/ROCKY POINT (S5)

N



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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

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Scale (A3 size)	Client
1:360000	DOUGLAS SHIRE COUNCIL
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
	Title: SEWERAGE INFRASTRUCTURE CHARGES CATCHMENTS

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		17/07/17	1100-201	A

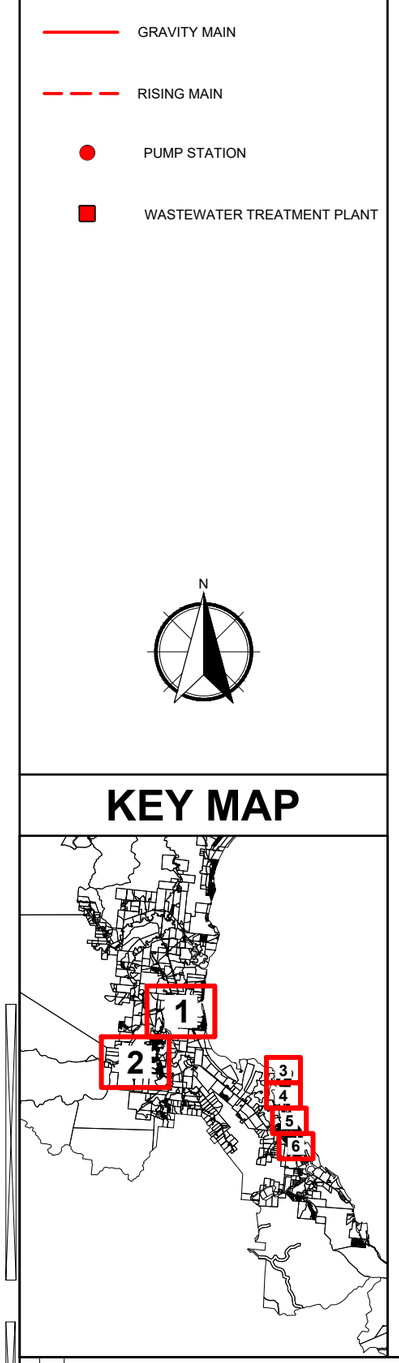
LEGEND

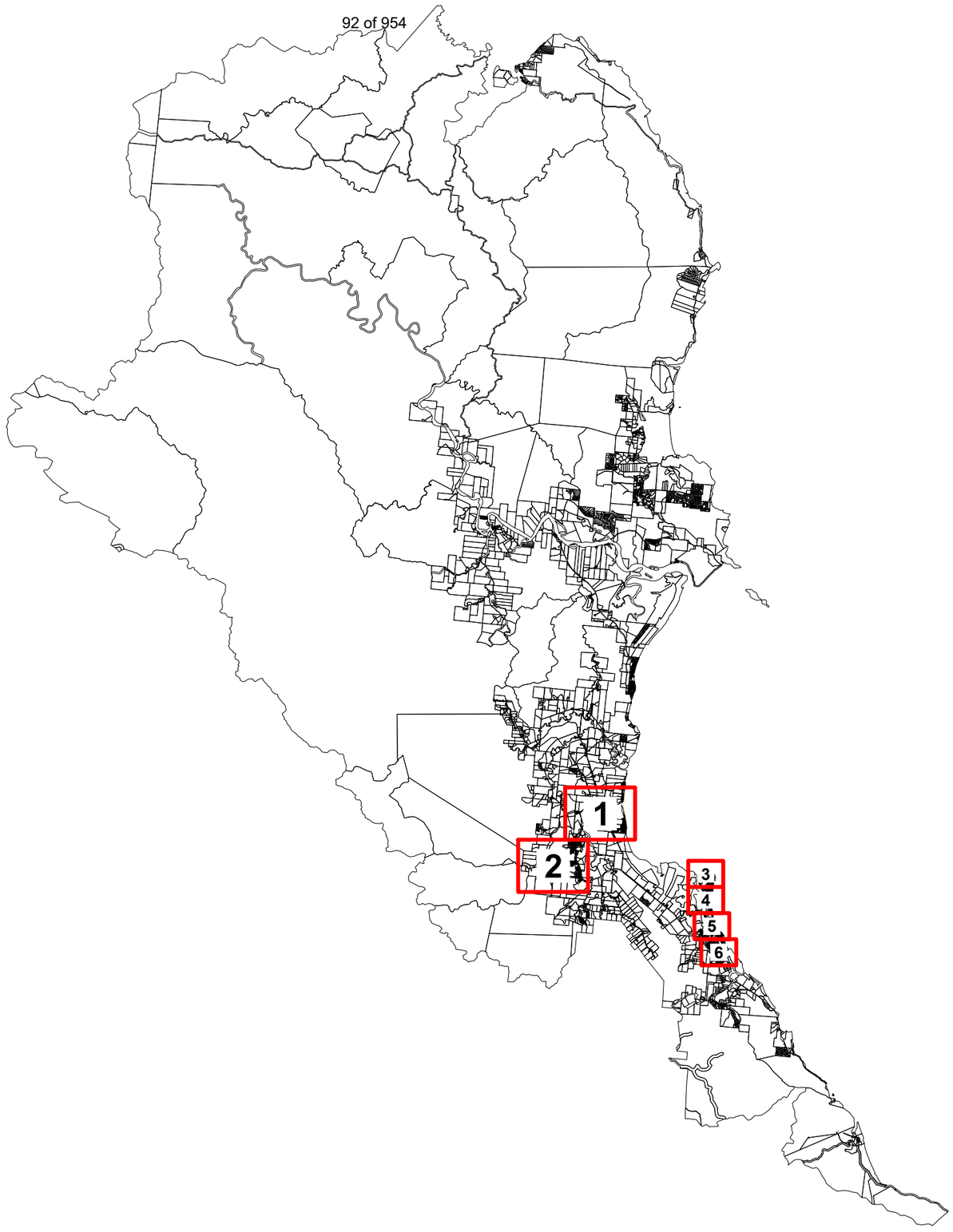
EXISTING SEWERAGE TRUNK INFRASTRUCTURE

- EFFLUENT RISING MAIN
- GRAVITY MAIN
- RISING MAIN
- PUMP STATION
- WASTEWATER TREATMENT PLANT

N

KEY MAP





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A	ISSUED FOR REVIEW				

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Scale (A3 size)	Client							
1:360000	DOUGLAS SHIRE COUNCIL							
	Project							
	1100 DOUGLAS SHIRE COUNCIL LGIP							
Drawing is not to be used for construction unless approved.	Title							
	EXISTING SEWERAGE TRUNK INFRASTRUCTURE KEY MAP							
Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/8/17	1100-202	A

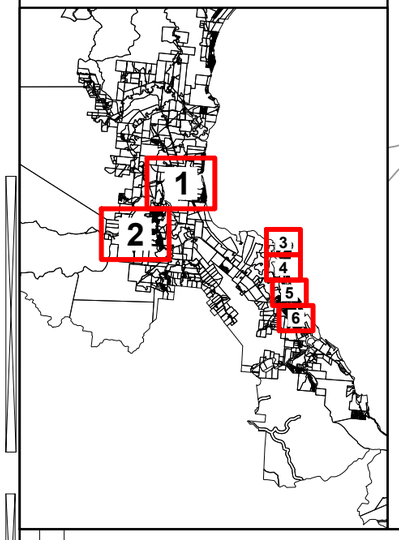
LEGEND

EXISTING SEWERAGE TRUNK INFRASTRUCTURE

- EFFLUENT RISING MAIN
- GRAVITY MAIN
- RISING MAIN
- PUMP STATION
- WASTEWATER TREATMENT PLANT

N

KEY MAP



NEWELL

COOYA BEACH (S3)

COOYA BEACH

MOSSMAN (S2)

MOSSMAN

BONNIE DOON

SPSE020
RME017
RME018
RME019
SPSE002
GME029
GME015
GME030
SPSE001
GME031
STPE003
RME003
RME035
RME041
RME042
RME070
RME040
RME036
RME038
RME039
RME037
RME034
RME033
SPSE017

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Revisions				
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 1

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Scale (A3 size): 1:15000

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Client	DOUGLAS SHIRE COUNCIL
Project	1100 DOUGLAS SHIRE COUNCIL LGIP
Title	EXISTING SEWERAGE TRUNK INFRASTRUCTURE - GRID 1

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/8/17	1100-203	A

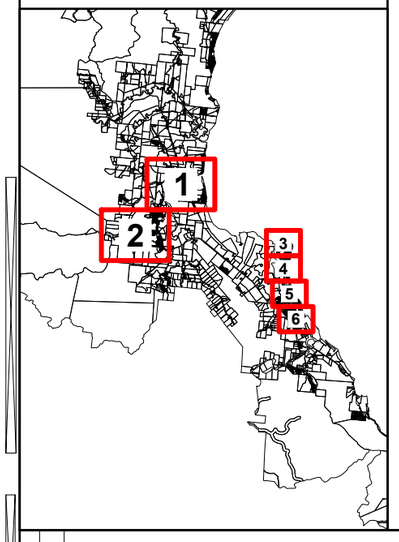
LEGEND

EXISTING SEWERAGE TRUNK INFRASTRUCTURE

- EFFLUENT RISING MAIN
- GRAVITY MAIN
- RISING MAIN
- PUMP STATION
- WASTEWATER TREATMENT PLANT

N

KEY MAP



FINLAYVALE

MOSSMAN

MOSSMAN (S2)

GME030
GME031
GME032
GME013
GME033
GME034
GME014
GME051
GME035
RME021
SPSE003
GME036
RME002
GME038
GME037
RME043
GME001
GME018
SPSE028
GME010
GME011
GME016
GME012
GME039
GME040
GME017
RME020
SPSE004

PRELIMINARY ISSUE ONLY

Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 2

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Scale (A3 size)	Client	
1:15000	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP	
	Title: EXISTING SEWERAGE TRUNK INFRASTRUCTURE - GRID 2	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/8/17	1100-204	A

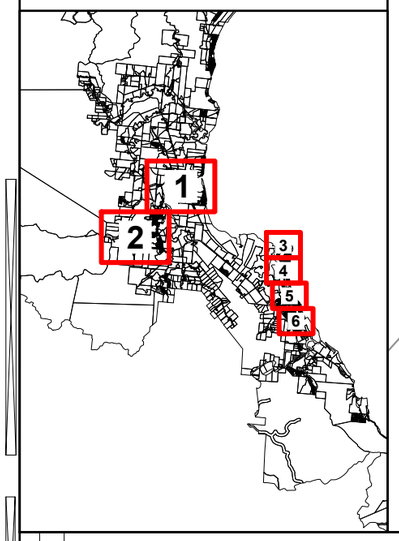
LEGEND

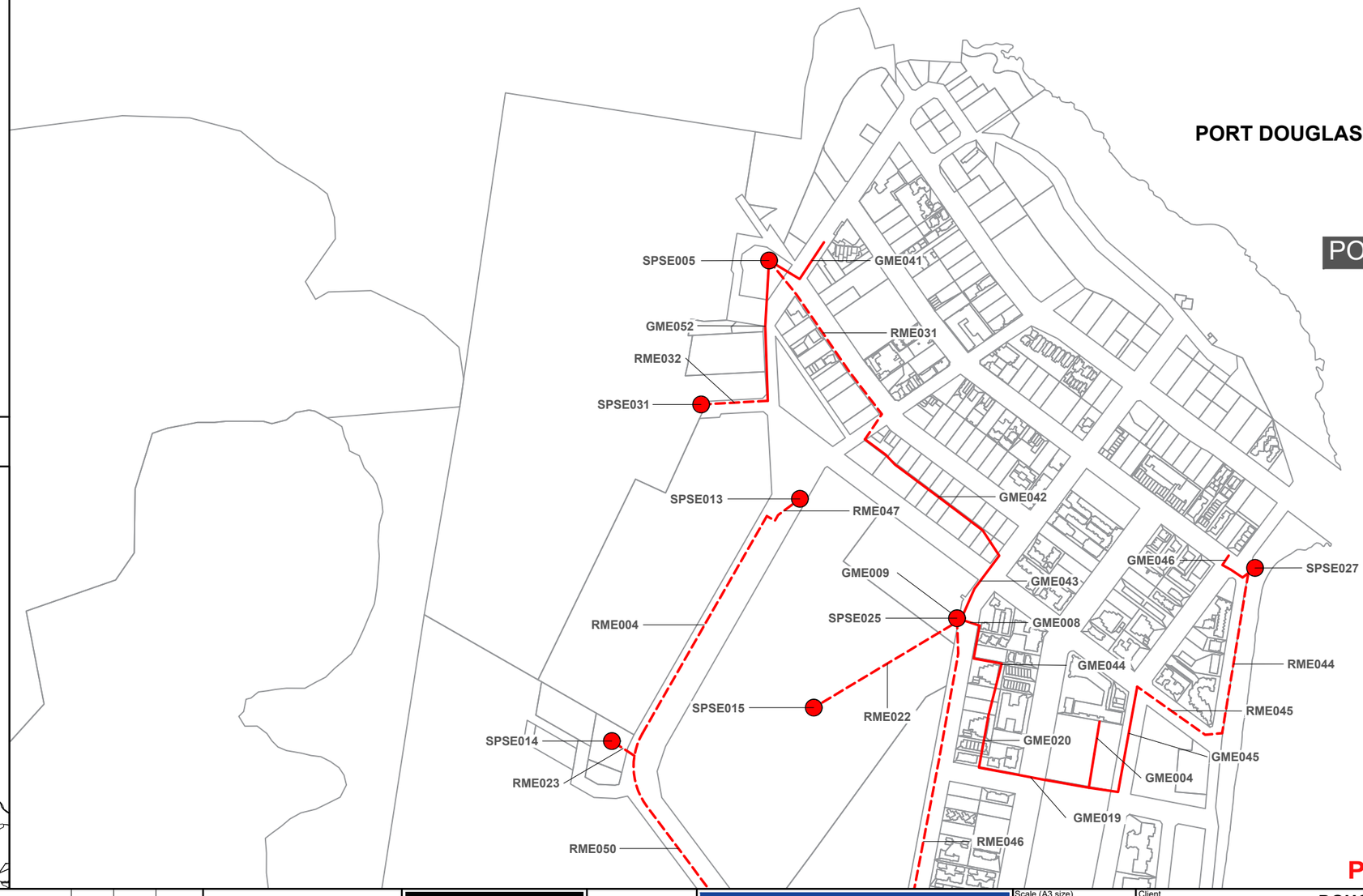
EXISTING SEWERAGE TRUNK INFRASTRUCTURE

- EFFLUENT RISING MAIN
- GRAVITY MAIN
- RISING MAIN
- PUMP STATION
- WASTEWATER TREATMENT PLANT

N

KEY MAP





PRELIMINARY ISSUE ONLY

Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 3

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Scale (A3 size) 1:7500

Drawing is not to be used for construction unless approved.

Client: DOUGLAS SHIRE COUNCIL
Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
Title: EXISTING SEWERAGE TRUNK INFRASTRUCTURE - GRID 3

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/8/17	1100-205	A

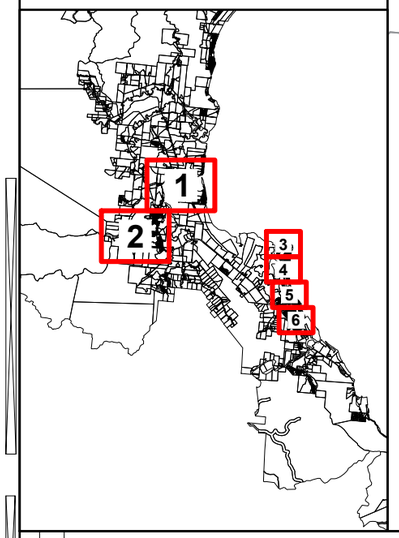
LEGEND

EXISTING SEWERAGE TRUNK INFRASTRUCTURE

- EFFLUENT RISING MAIN
- GRAVITY MAIN
- RISING MAIN
- PUMP STATION
- WASTEWATER TREATMENT PLANT

N

KEY MAP



PORT DOUGLAS (S1)

PORT DOUGLAS

RME050
RME046
RME048
RME049
STPE002
RME051
RME001
EME005
RME052
STPE001
EME004
RME054
RME053
EME020
RME015
RME074
GME005
SPSE032
SPSE026
EME018
EME006
RME016
EME009
EME008
RME075
SPSE034
EME019
RME076
SPSE033
SPSE035
RME013
EME007
RME077
RME072
SPSE036
RME073
RME055
EME010
RME056

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Revisions					
No.	Description		Reviewed	Approved	Date
A	ISSUED FOR REVIEW				

GRID: 4

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Scale (A3 size)	Client
1:7500	DOUGLAS SHIRE COUNCIL
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
	Title: EXISTING SEWERAGE TRUNK INFRASTRUCTURE - GRID 4

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/8/17	1100-206	A

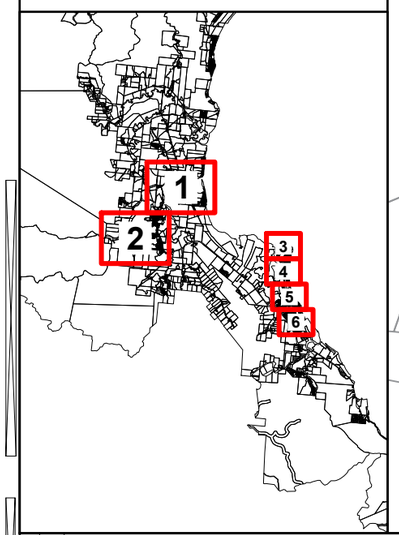
LEGEND

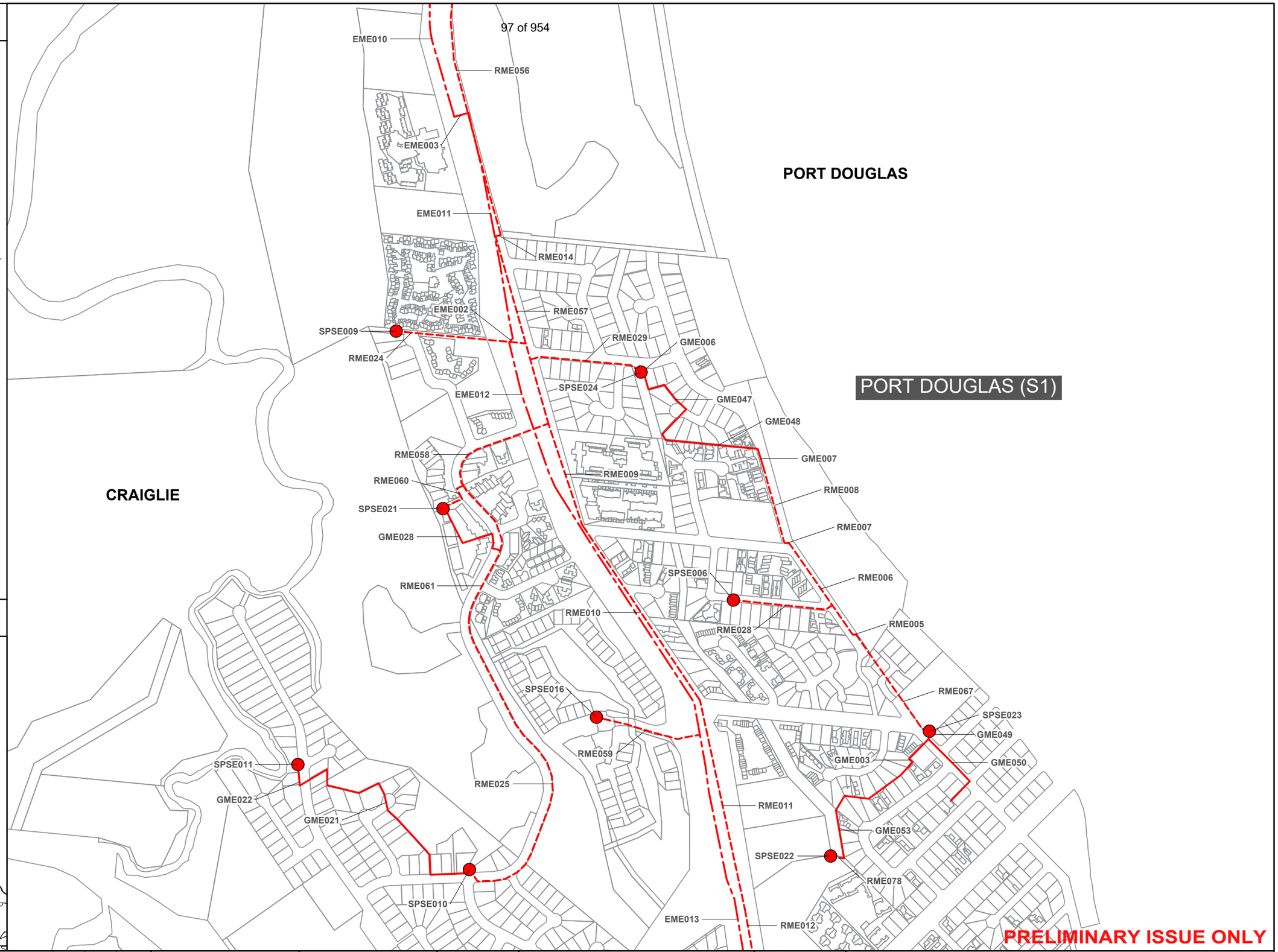
EXISTING SEWERAGE TRUNK INFRASTRUCTURE

- EFFLUENT RISING MAIN
- GRAVITY MAIN
- RISING MAIN
- PUMP STATION
- WASTEWATER TREATMENT PLANT

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 5

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www.trinityengineering.com.au Email admin@trinityengineering.com.au

Scale (A3 size): 1:7500

Drawing is not to be used for construction unless approved.

Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: EXISTING SEWERAGE TRUNK INFRASTRUCTURE - GRID 5

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/8/17	1100-207	A

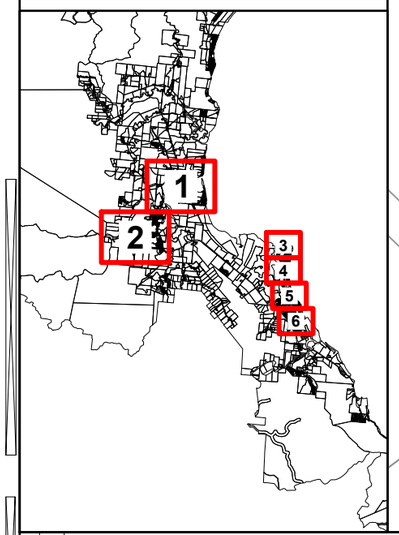
LEGEND

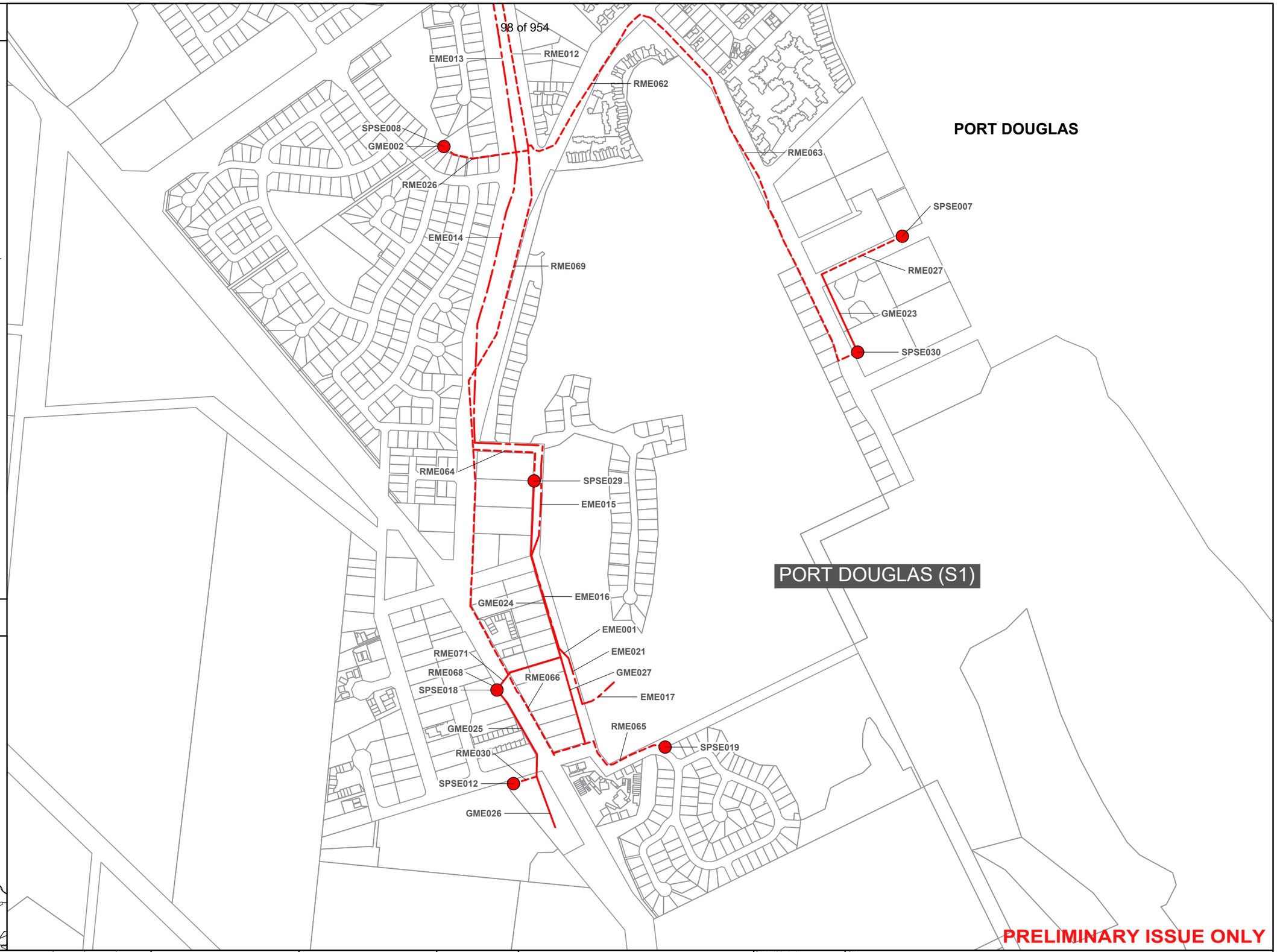
EXISTING SEWERAGE TRUNK INFRASTRUCTURE

- EFFLUENT RISING MAIN
- GRAVITY MAIN
- RISING MAIN
- PUMP STATION
- WASTEWATER TREATMENT PLANT

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 6

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Scale (A3 size)	1:7500
	Drawing is not to be used for construction unless approved.
Client	DOUGLAS SHIRE COUNCIL
Project	1100 DOUGLAS SHIRE COUNCIL LGIP
Title	EXISTING SEWERAGE TRUNK INFRASTRUCTURE - GRID 6

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/8/17	1100-208	A

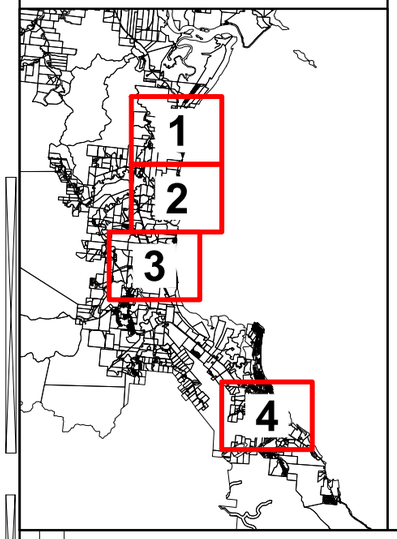
LEGEND

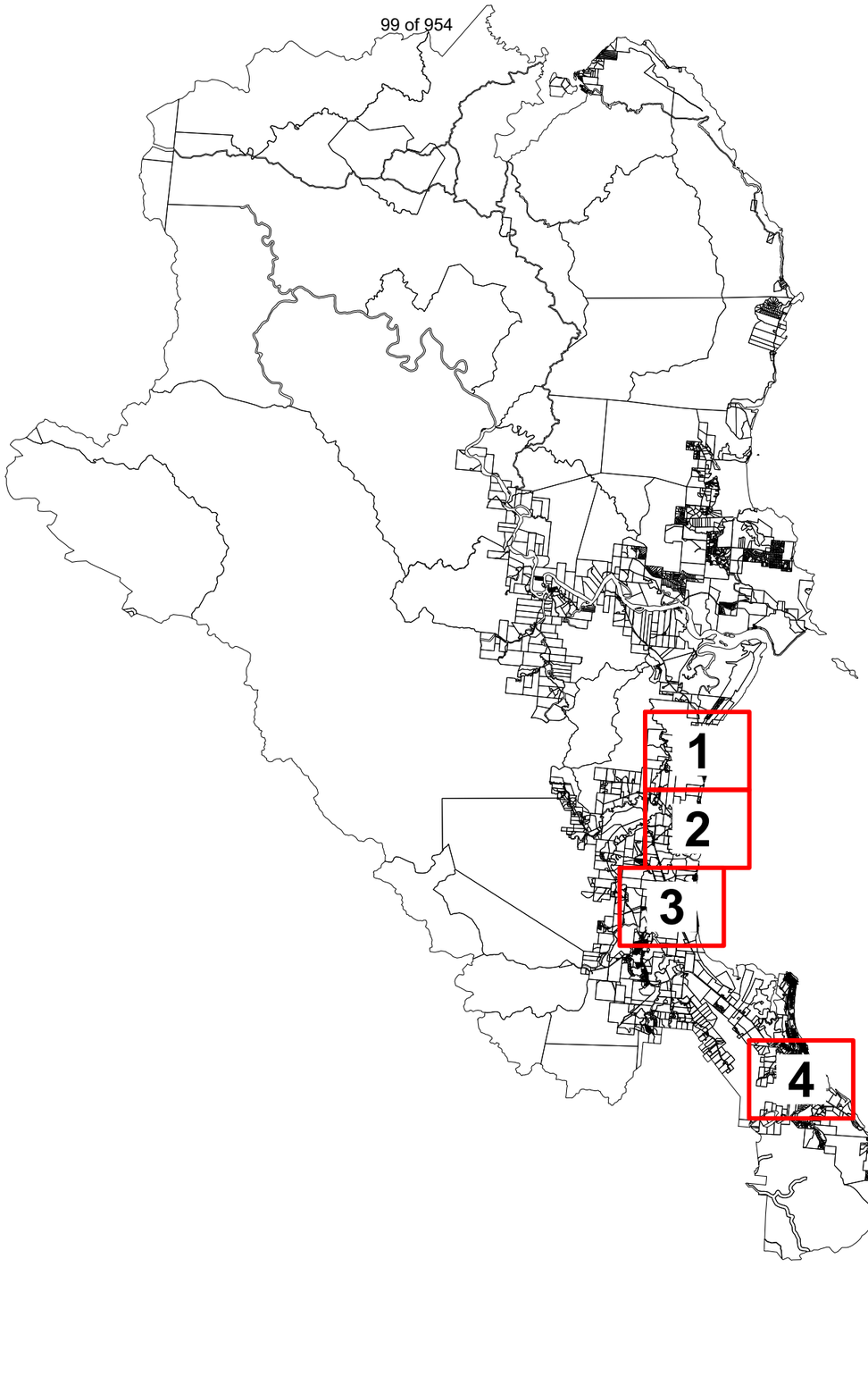
FUTURE SEWERAGE TRUNK INFRASTRUCTURE

- RISING MAINS
- RISING MAINS (TRUNK)
- EFFLUENT RISING MAINS
- EFFLUENT RISING MAINS (TRUNK)
- PUMP STATION
- WASTEWATER TREATMENT PLANT
- STORAGE FACILITY

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

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Scale (A3 size)	Client	DOUGLAS SHIRE COUNCIL
1:360000	Project	1100 DOUGLAS SHIRE COUNCIL LGIP
Drawing is not to be used for construction unless approved.	Title	FUTURE SEWERAGE TRUNK INFRASTRUCTURE KEY MAP

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/8/17	1100-209	A

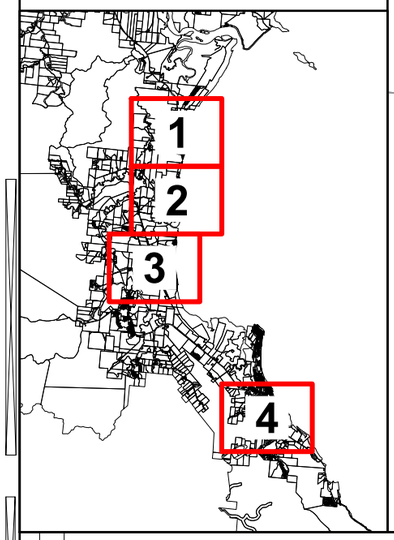
LEGEND

FUTURE SEWERAGE TRUNK INFRASTRUCTURE

- RISING MAINS
- RISING MAINS (TRUNK)
- EFFLUENT RISING MAINS
- EFFLUENT RISING MAINS (TRUNK)
- PUMP STATION
- WASTEWATER TREATMENT PLANT
- STORAGE FACILITY

N

KEY MAP



WONGA BEACH/ROCKY POINT (S5)

PRELIMINARY ISSUE ONLY

Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 1

DOUGLAS SHIRE COUNCIL
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Email admin@trinityengineering.com.au

Scale (A3 size): 1:20000

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Client: DOUGLAS SHIRE COUNCIL
Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
Title: FUTURE SEWERAGE TRUNK INFRASTRUCTURE - GRID 1

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/8/17	1100-210	A

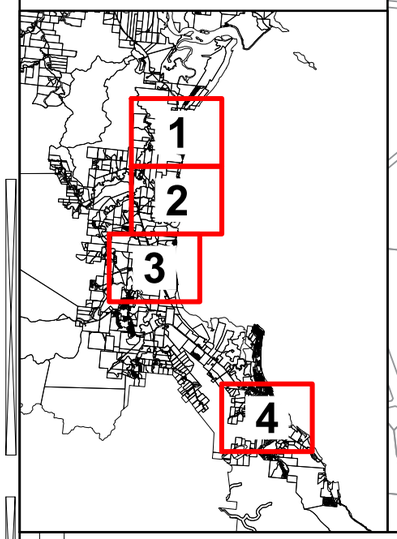
LEGEND

FUTURE SEWERAGE TRUNK INFRASTRUCTURE

- RISING MAINS
- RISING MAINS (TRUNK)
- EFFLUENT RISING MAINS
- EFFLUENT RISING MAINS (TRUNK)
- PUMP STATION
- WASTEWATER TREATMENT PLANT
- STORAGE FACILITY

N

KEY MAP



WONGA BEACH/ROCKY POINT (S5)

PRELIMINARY ISSUE ONLY

Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 2

DOUGLAS SHIRE COUNCIL
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Scale (A3 size)	Client
1:20000	DOUGLAS SHIRE COUNCIL
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
	Title: FUTURE SEWERAGE TRUNK INFRASTRUCTURE - GRID 2

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/8/17	1100-211	A

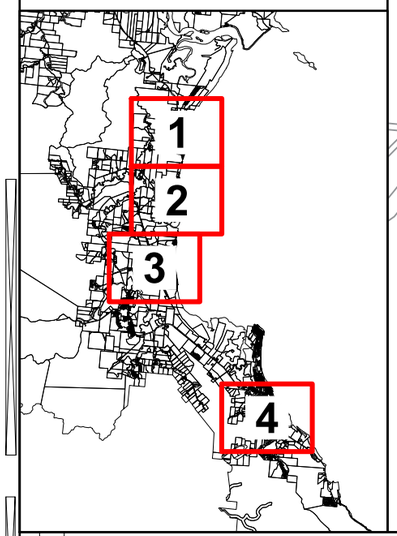
LEGEND

FUTURE SEWERAGE TRUNK INFRASTRUCTURE

- RISING MAINS
- RISING MAINS (TRUNK)
- EFFLUENT RISING MAINS
- EFFLUENT RISING MAINS (TRUNK)
- PUMP STATION
- WASTEWATER TREATMENT PLANT
- STORAGE FACILITY

N

KEY MAP



RMF024
RMF028
RMF029
RMF026
RMF027
RMF023
RMF022
RMF030
RMF025
RMF031
RMF032
NEWELL
RMF021
NEWELL BEACH (S4)
RMF066
SPSF005
RMF033
RMF038
RMF034
RMF037
RMF035
RMF036
SSFF001
SPSF004
SPSF008
EMF002
EMF001
RMF067
MOSSMAN
SSFF002
SPSF007
SPSF006
STPF001
STPF002
STPF003
STPF004
BONNIE DOON
COOYA BEACH
RMF019
RMF018
RMF017
RMF016
RMF015
RMF009
RMF014
RMF012
RMF013
RMF011
RMF020
RMF001
RMF006
RMF010
RMF007
RMF005
RMF008
RMF004
RMF003
RMF002
MOSSMAN (S2)
COOYA BEACH (S3)

PRELIMINARY ISSUE ONLY

Revisions					
No.	Description		Reviewed	Approved	Date
A	ISSUED FOR REVIEW				

GRID: 3

DOUGLAS SHIRE COUNCIL
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Scale (A3 size): 1:20000

Drawing is not to be used for construction unless approved.

Client: DOUGLAS SHIRE COUNCIL
Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
Title: FUTURE SEWERAGE TRUNK INFRASTRUCTURE - GRID 3

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/8/17	1100-212	A

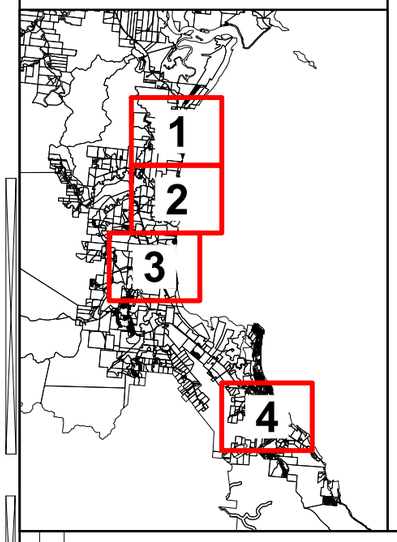
LEGEND

FUTURE SEWERAGE TRUNK INFRASTRUCTURE

- RISING MAINS
- RISING MAINS (TRUNK)
- EFFLUENT RISING MAINS
- EFFLUENT RISING MAINS (TRUNK)
- PUMP STATION
- WASTEWATER TREATMENT PLANT
- STORAGE FACILITY

N

KEY MAP



PORT DOUGLAS

PORT DOUGLAS (S1)

RMF068

SPSF001

PRELIMINARY ISSUE ONLY

Revisions				
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 4

DOUGLAS SHIRE COUNCIL

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Scale (A3 size)	Client	
1:20000	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project	1100 DOUGLAS SHIRE COUNCIL LGIP
	Title	FUTURE SEWERAGE TRUNK INFRASTRUCTURE - GRID 4

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/8/17	1100-213	A

LOCAL GOVERNMENT INFRASTRUCTURE PLANS (TRANSPORT (ROAD) TRUNK INFRASTRUCTURE)

for

DOUGLAS SHIRE COUNCIL

SCHEDULE OF PROJECT DRAWINGS

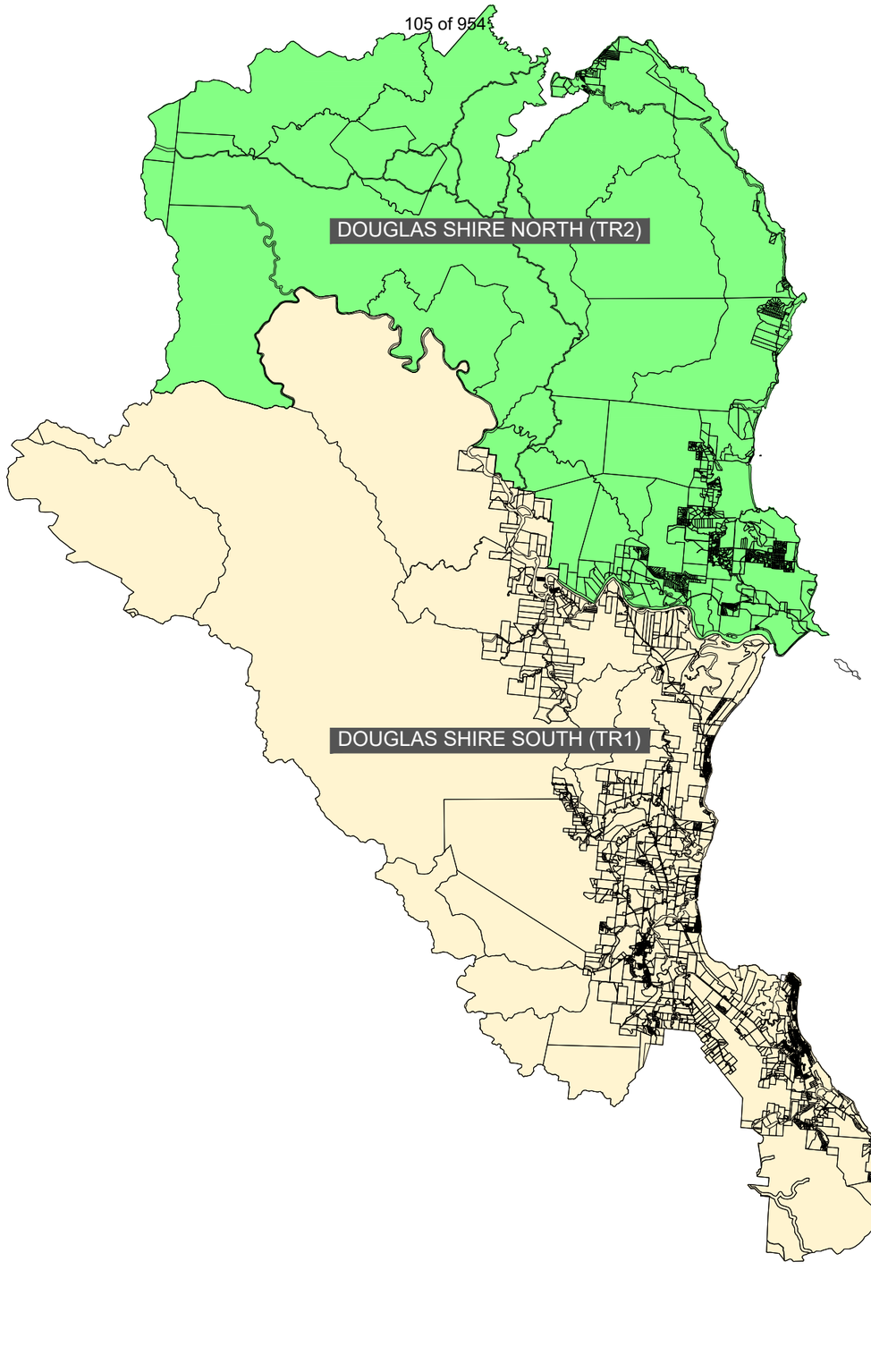
PRELIMINARY ISSUE ONLY

LEGEND

TRANSPORT (ROADS) CATCHMENT AREAS

- DOUGLAS SHIRE SOUTH (TR1)
- DOUGLAS SHIRE NORTH (TR2)

N



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Revisions					
A	ISSUED FOR REVIEW				
No.	Description	Reviewed	Approved	Date	

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Scale (A3 size)	Client
NOT TO SCALE	DOUGLAS SHIRE COUNCIL
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
	Title: TRANSPORT (ROAD) INFRASTRUCTURE CATCHMENT AREAS

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		29/06/17	1100-301	A

LEGEND

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

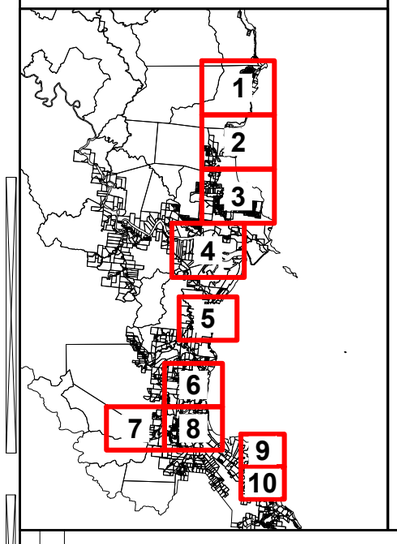
- HIGHWAY (SCR)
- SUB ARTERIAL (SCR)
- URBAN MAJOR COLLECTOR
- RURAL MAJOR COLLECTOR
- URBAN MINOR COLLECTOR
- RURAL MINOR COLLECTOR
- ACCESS STREET

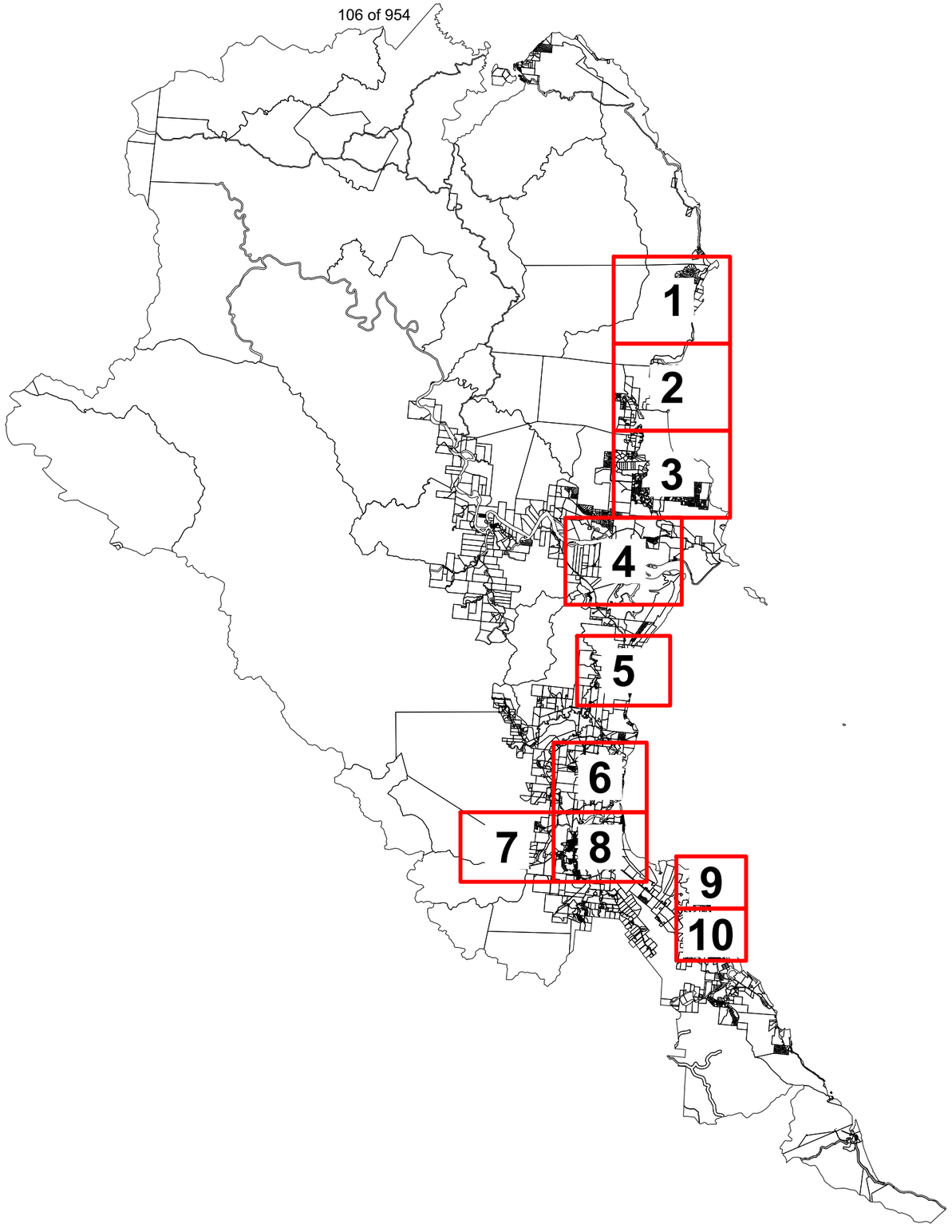
EXISTING INTERSECTIONS AND STRUCTURES

- BRIDGE (SCR)
- CULVERT (SCR)
- ROUNDABOUT (SCR)
- BRIDGE
- CULVERT
- FERRY LANDING
- ROUNDABOUT

N

KEY MAP





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A	ISSUED FOR REVIEW				

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Scale (A3 size)	1:360000
	Drawing is not to be used for construction unless approved.
Client	DOUGLAS SHIRE COUNCIL
Project	1100 DOUGLAS SHIRE COUNCIL LGIP
Title	EXISTING TRANSPORT TRUNK INFRASTRUCTURE KEY MAP

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		05/09/17	1100-302	A

LEGEND

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

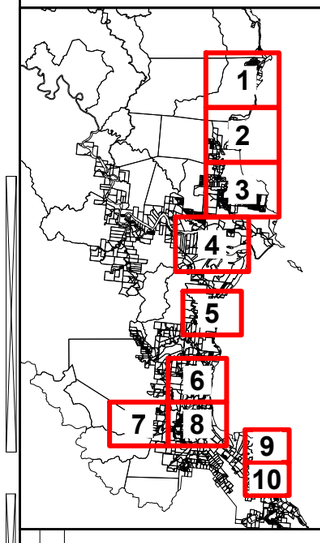
- HIGHWAY (SCR)
- SUB ARTERIAL (SCR)
- URBAN MAJOR COLLECTOR
- RURAL MAJOR COLLECTOR
- URBAN MINOR COLLECTOR
- RURAL MINOR COLLECTOR
- ACCESS STREET

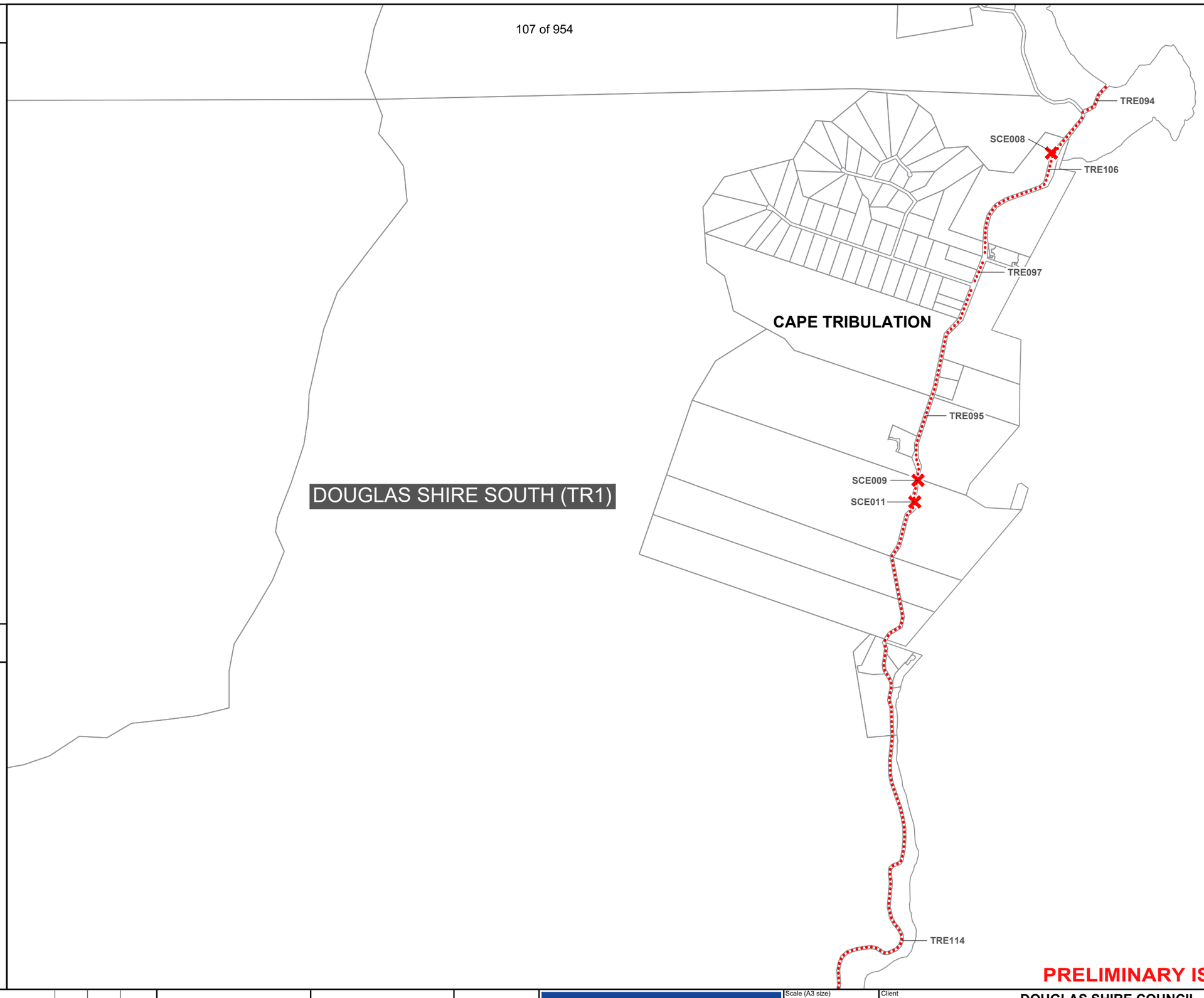
EXISTING INTERSECTIONS AND STRUCTURES

- BRIDGE (SCR)
- CULVERT (SCR)
- ROUNDABOUT (SCR)
- BRIDGE
- CULVERT
- FERRY LANDING
- ROUNDABOUT

N

KEY MAP





PRELIMINARY ISSUE ONLY

Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 1

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Scale (A3 size)	Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
1:25000	IM	RR	RR	RR	R RANKINE		05/09/17	1100-303	A

Drawing is not to be used for construction unless approved.

Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: EXISTING TRANSPORT TRUNK INFRASTRUCTURE - GRID 1

LEGEND

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

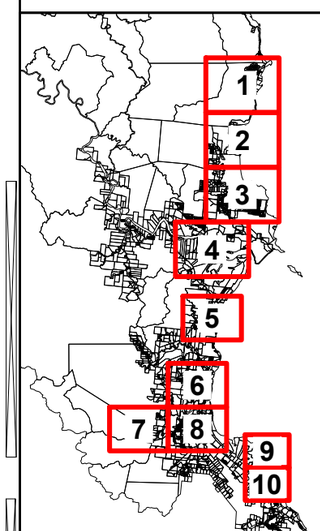
- HIGHWAY (SCR)
- SUB ARTERIAL (SCR)
- URBAN MAJOR COLLECTOR
- RURAL MAJOR COLLECTOR
- URBAN MINOR COLLECTOR
- RURAL MINOR COLLECTOR
- ACCESS STREET

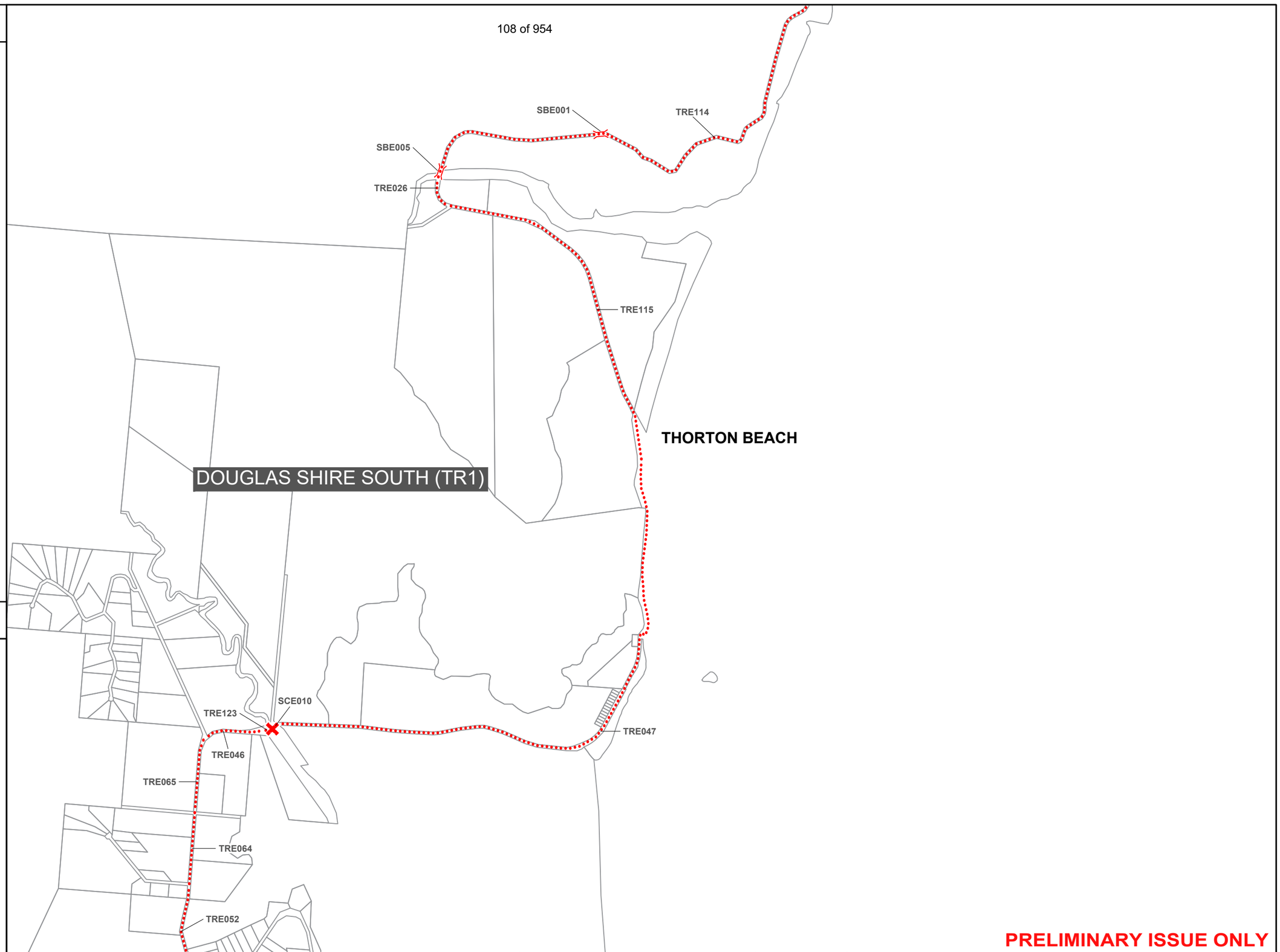
EXISTING INTERSECTIONS AND STRUCTURES

- BRIDGE (SCR)
- CULVERT (SCR)
- ROUNDABOUT (SCR)
- BRIDGE
- CULVERT
- FERRY LANDING
- ROUNDABOUT

N

KEY MAP





PRELIMINARY ISSUE ONLY

Revisions				
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 2

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Scale (A3 size)	Client	
1:25000	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP	
	Title: EXISTING TRANSPORT TRUNK INFRASTRUCTURE - GRID 2	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		05/09/17	1100-304	A

LEGEND

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

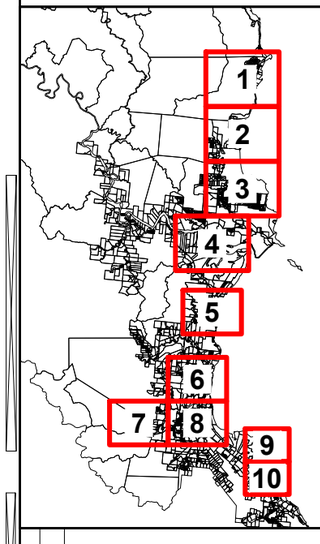
- HIGHWAY (SCR)
- SUB ARTERIAL (SCR)
- URBAN MAJOR COLLECTOR
- RURAL MAJOR COLLECTOR
- URBAN MINOR COLLECTOR
- RURAL MINOR COLLECTOR
- ACCESS STREET

EXISTING INTERSECTIONS AND STRUCTURES

- BRIDGE (SCR)
- CULVERT (SCR)
- ROUNDABOUT (SCR)
- BRIDGE
- CULVERT
- FERRY LANDING
- ROUNDABOUT

N

KEY MAP



DIWAN

TRE052
SCE002
TRE053
TRE080
TRE111
TRE077
TRE117
TRE076
TRE037
SBE003
TRE142
TRE143
SCE003
TRE140
TRE139
TRE049
SCE004
TRE059
TRE058
TRE044
COW BAY
TRE093
TRE021
SCE005
TRE020
TRE072
TRE081
TRE127
TRE129
TRE128
TRE131

DOUGLAS SHIRE SOUTH (TR1)

PRELIMINARY ISSUE ONLY

Revisions					
No.	Description		Reviewed	Approved	Date
A	ISSUED FOR REVIEW				

GRID: 3

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Scale (A3 size)	Client	
1:25000	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project	1100 DOUGLAS SHIRE COUNCIL LGIP
	Title	EXISTING TRANSPORT TRUNK INFRASTRUCTURE - GRID 3

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		05/09/17	1100-305	A

LEGEND

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

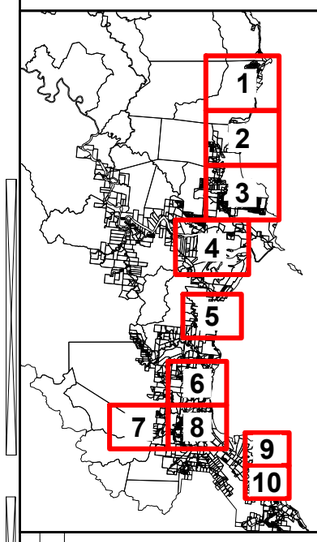
- HIGHWAY (SCR)
- SUB ARTERIAL (SCR)
- URBAN MAJOR COLLECTOR
- RURAL MAJOR COLLECTOR
- URBAN MINOR COLLECTOR
- RURAL MINOR COLLECTOR
- ACCESS STREET

EXISTING INTERSECTIONS AND STRUCTURES

- BRIDGE (SCR)
- CULVERT (SCR)
- ROUNDABOUT (SCR)
- BRIDGE
- CULVERT
- FERRY LANDING
- ROUNDABOUT

N

KEY MAP



TRE054
TRE016
KIMBERLEY
TRE056
TRE041
SFLE001
TRE086
TRE048
TRE110
LOWER DAINTREE
TRE035
TRE122
TRE126
SCRE002
DOUGLAS SHIRE SOUTH (TR1)

PRELIMINARY ISSUE ONLY

Revisions					
A	ISSUED FOR REVIEW				
No.	Description	Reviewed	Approved	Date	

GRID: 4

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Scale (A3 size)	Client	DOUGLAS SHIRE COUNCIL
1:25000	Project	1100 DOUGLAS SHIRE COUNCIL LGIP
Drawing is not to be used for construction unless approved.	Title	EXISTING TRANSPORT TRUNK INFRASTRUCTURE - GRID 4

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		05/09/17	1100-306	A

LEGEND

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

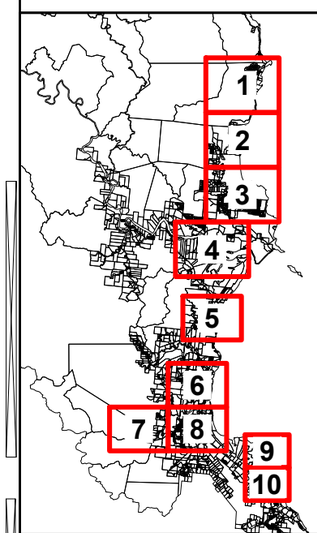
- HIGHWAY (SCR)
- SUB ARTERIAL (SCR)
- URBAN MAJOR COLLECTOR
- RURAL MAJOR COLLECTOR
- URBAN MINOR COLLECTOR
- RURAL MINOR COLLECTOR
- ACCESS STREET

EXISTING INTERSECTIONS AND STRUCTURES

- BRIDGE (SCR)
- CULVERT (SCR)
- ROUNDABOUT (SCR)
- BRIDGE
- CULVERT
- FERRY LANDING
- ROUNDABOUT

N

KEY MAP



PRELIMINARY ISSUE ONLY

Revisions					
No.	Description		Reviewed	Approved	Date
A	ISSUED FOR REVIEW				

GRID: 5

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Scale (A3 size)	Client
1:20000	DOUGLAS SHIRE COUNCIL
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
	Title: EXISTING TRANSPORT TRUNK INFRASTRUCTURE - GRID 5

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		05/09/17	1100-307	A

LEGEND

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

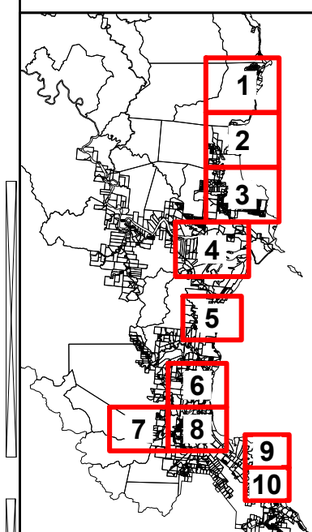
- HIGHWAY (SCR)
- SUB ARTERIAL (SCR)
- URBAN MAJOR COLLECTOR
- RURAL MAJOR COLLECTOR
- URBAN MINOR COLLECTOR
- RURAL MINOR COLLECTOR
- ACCESS STREET

EXISTING INTERSECTIONS AND STRUCTURES

- BRIDGE (SCR)
- CULVERT (SCR)
- ROUNDABOUT (SCR)
- BRIDGE
- CULVERT
- FERRY LANDING
- ROUNDABOUT

N

KEY MAP



SCRE002

DOUGLAS SHIRE SOUTH (TR1)

NEWELL

TRE185

TRE184

TRE183

TRE187

TRE186

TRE063

TRE109

SCRCE003

SCRE001

PRELIMINARY ISSUE ONLY

Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 6

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Scale (A3 size)	Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
1:20000	IM	RR	RR	RR	R RANKINE		05/09/17	1100-308	A

Drawing is not to be used for construction unless approved.

Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: EXISTING TRANSPORT TRUNK INFRASTRUCTURE - GRID 6

LEGEND

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

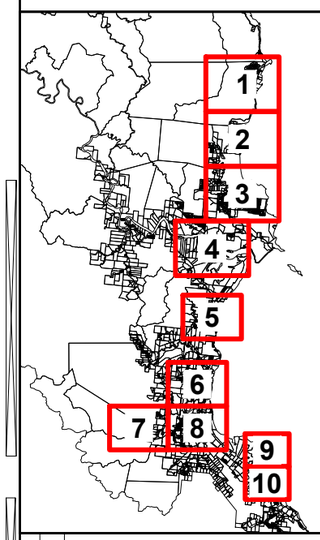
- HIGHWAY (SCR)
- SUB ARTERIAL (SCR)
- URBAN MAJOR COLLECTOR
- RURAL MAJOR COLLECTOR
- URBAN MINOR COLLECTOR
- RURAL MINOR COLLECTOR
- ACCESS STREET

EXISTING INTERSECTIONS AND STRUCTURES

- BRIDGE (SCR)
- CULVERT (SCR)
- ROUNDABOUT (SCR)
- BRIDGE
- CULVERT
- FERRY LANDING
- ROUNDABOUT

N

KEY MAP



DOUGLAS SHIRE SOUTH (TR1)

FINLAYVALE

TRE200

PRELIMINARY ISSUE ONLY

Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 7

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Scale (A3 size)	1:20000
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Client	DOUGLAS SHIRE COUNCIL
Project	1100 DOUGLAS SHIRE COUNCIL LGIP
Title	EXISTING TRANSPORT TRUNK INFRASTRUCTURE - GRID 7

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		05/09/17	1100-309	A

LEGEND

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

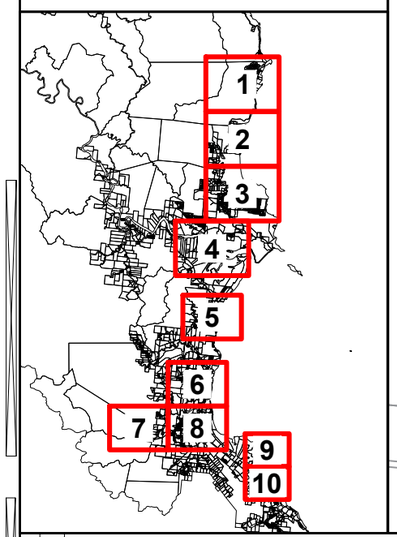
- HIGHWAY (SCR)
- SUB ARTERIAL (SCR)
- URBAN MAJOR COLLECTOR
- RURAL MAJOR COLLECTOR
- URBAN MINOR COLLECTOR
- RURAL MINOR COLLECTOR
- ACCESS STREET

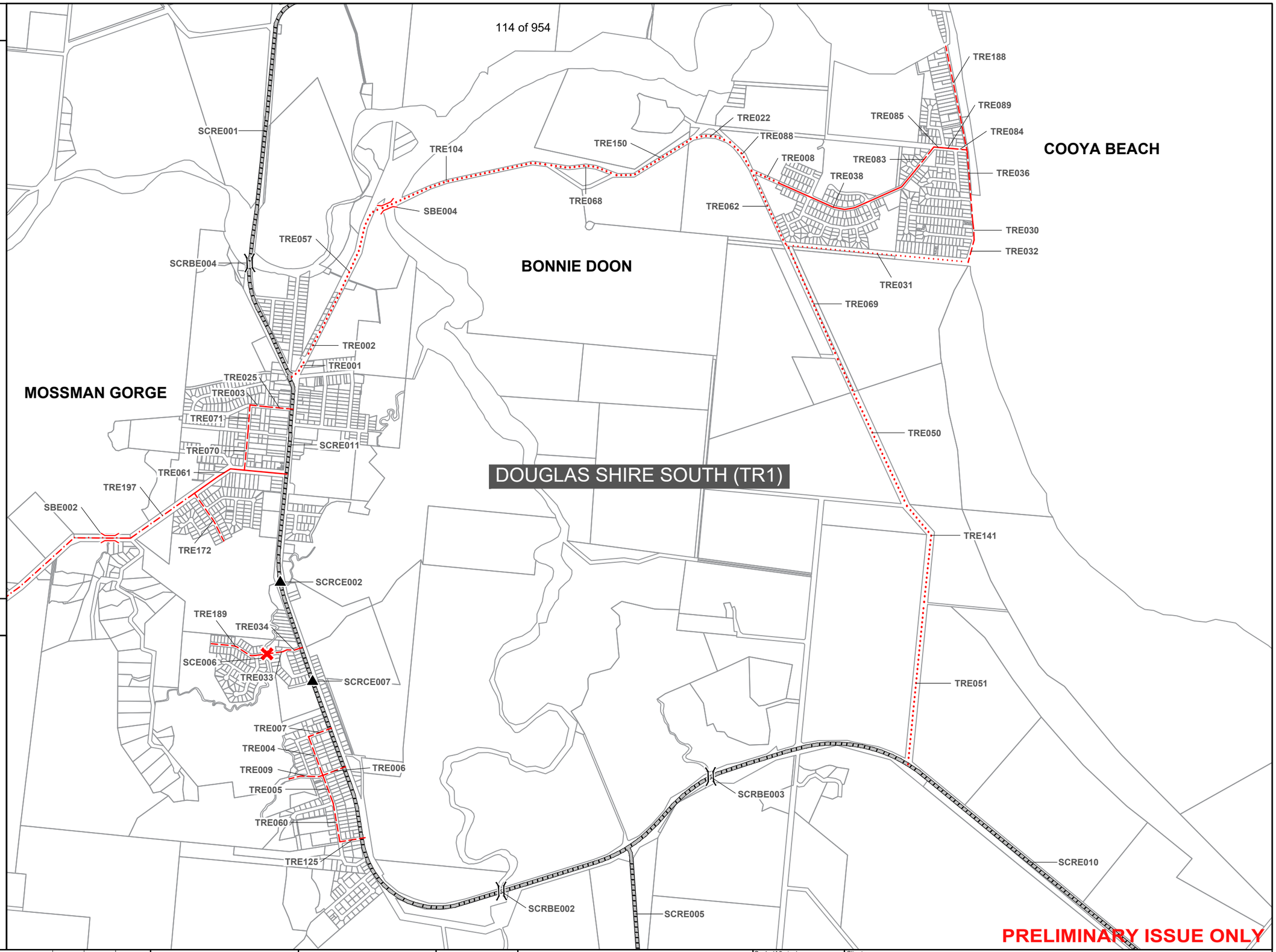
EXISTING INTERSECTIONS AND STRUCTURES

- BRIDGE (SCR)
- CULVERT (SCR)
- ROUNDABOUT (SCR)
- BRIDGE
- CULVERT
- FERRY LANDING
- ROUNDABOUT

N

KEY MAP





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Revisions					
No.	Description		Reviewed	Approved	Date
A	ISSUED FOR REVIEW				

GRID: 8

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Scale (A3 size)	Client
1:20000	DOUGLAS SHIRE COUNCIL
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	Title: EXISTING TRANSPORT TRUNK INFRASTRUCTURE - GRID 8

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		05/09/17	1100-310	A

LEGEND

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

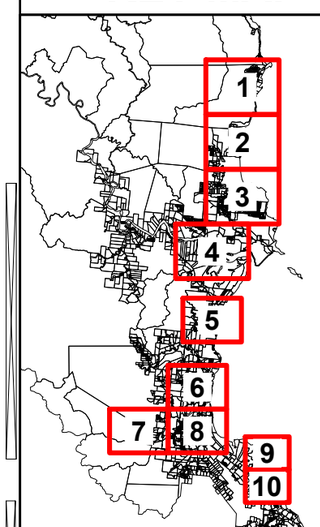
- HIGHWAY (SCR)
- SUB ARTERIAL (SCR)
- URBAN MAJOR COLLECTOR
- RURAL MAJOR COLLECTOR
- URBAN MINOR COLLECTOR
- RURAL MINOR COLLECTOR
- ACCESS STREET

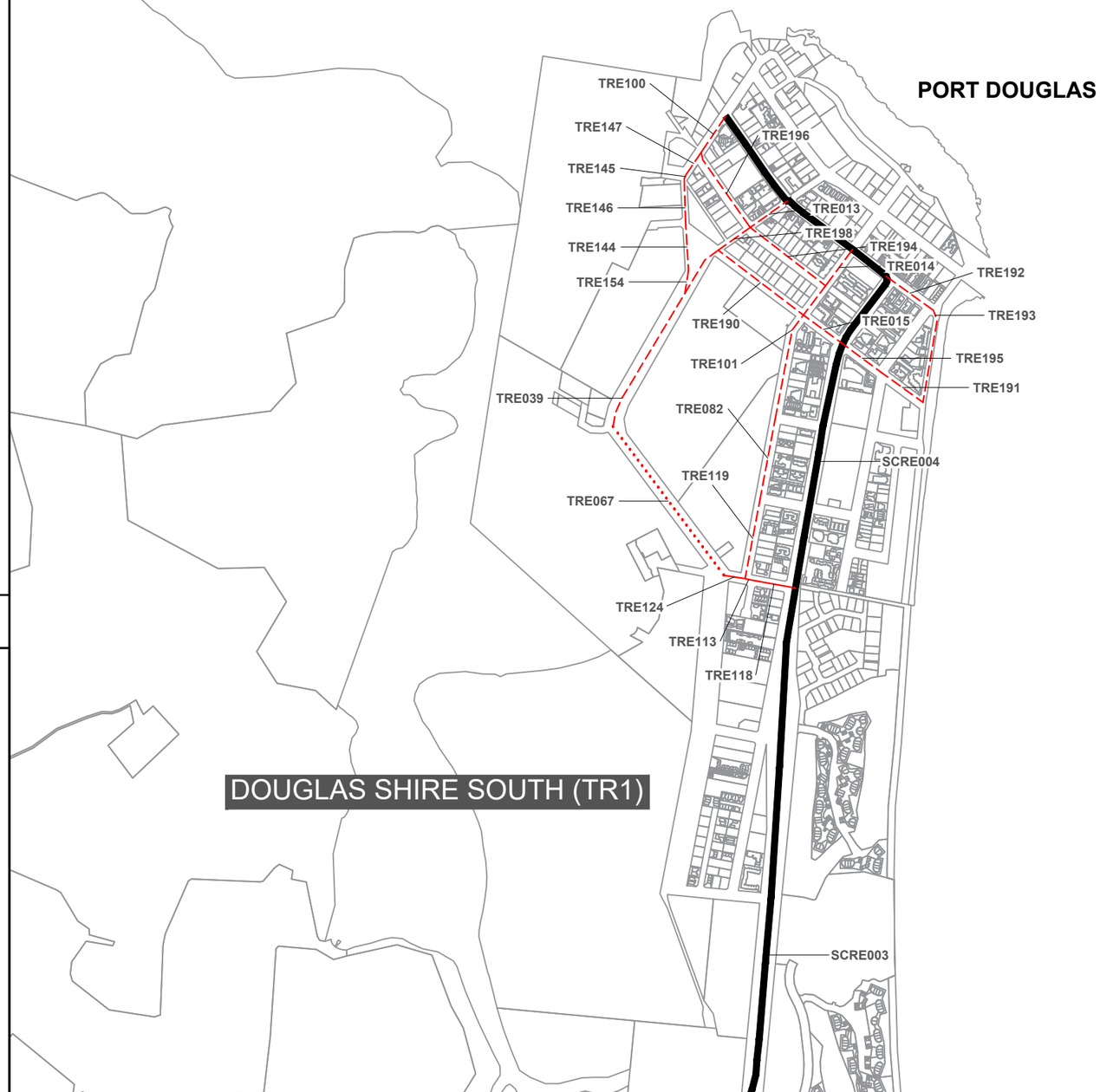
EXISTING INTERSECTIONS AND STRUCTURES

- BRIDGE (SCR)
- CULVERT (SCR)
- ROUNDABOUT (SCR)
- BRIDGE
- CULVERT
- FERRY LANDING
- ROUNDABOUT

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 9

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Scale (A3 size)	Client	DOUGLAS SHIRE COUNCIL						
1:15000	Project	1100 DOUGLAS SHIRE COUNCIL LGIP						
Drawing is not to be used for construction unless approved.	Title	EXISTING TRANSPORT TRUNK INFRASTRUCTURE - GRID 9						
Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		05/09/17	1100-311	A

LEGEND

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

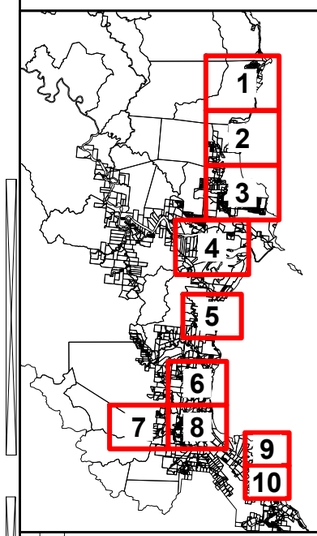
- HIGHWAY (SCR)
- SUB ARTERIAL (SCR)
- URBAN MAJOR COLLECTOR
- RURAL MAJOR COLLECTOR
- URBAN MINOR COLLECTOR
- RURAL MINOR COLLECTOR
- ACCESS STREET

EXISTING INTERSECTIONS AND STRUCTURES

- BRIDGE (SCR)
- CULVERT (SCR)
- ROUNDABOUT (SCR)
- BRIDGE
- CULVERT
- FERRY LANDING
- ROUNDABOUT

N

KEY MAP



CRAIGLIE

DOUGLAS SHIRE SOUTH (TR1)

SCRIE002
SCRE003
SCRCE006
SCRE010
SCRCE004
SCRCE001
SCRE009
SCRE008
SCRE007
TRE116
TRE112
TRE130
TRE103
TRE102
TRE151
TRE074
TRE073
TRE090
TRE201
TRE202
TRE203
TRE132
TRE136
TRE012
TRE017
TRE079
TRE138
TRE010
TRE075
TRE137
TRE134
TRE043
TRE011
TRE135
TRE019
TRE149
TRE098
TRE042
TRE045
TRE066
TRE204
TRE040
SCE007
SCE001
SCRIE003
SCRIE001
ISE001
ISE002

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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

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Scale (A3 size): 1:15000

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Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: EXISTING TRANSPORT TRUNK INFRASTRUCTURE - GRID 10

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		05/09/17	1100-312	A

LEGEND

EXISTING TRANSPORT (SCR) TRUNK INFRASTRUCTURE

- HIGHWAY (SCR)
- SUB ARTERIAL (SCR)
- BRIDGE (SCR)
- CULVERT (SCR)
- ROUNDABOUT (SCR)

FUTURE TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

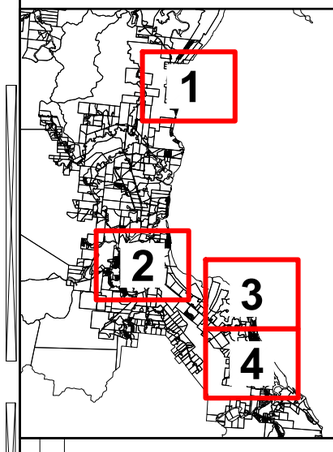
- SUB ARTERIAL
- URBAN MAJOR COLLECTOR
- RURAL MAJOR COLLECTOR
- URBAN MINOR COLLECTOR
- RURAL MINOR COLLECTOR
- DRAINAGE LINE
- ROAD UPGRADE
- AREAS UNDER INVESTIGATION

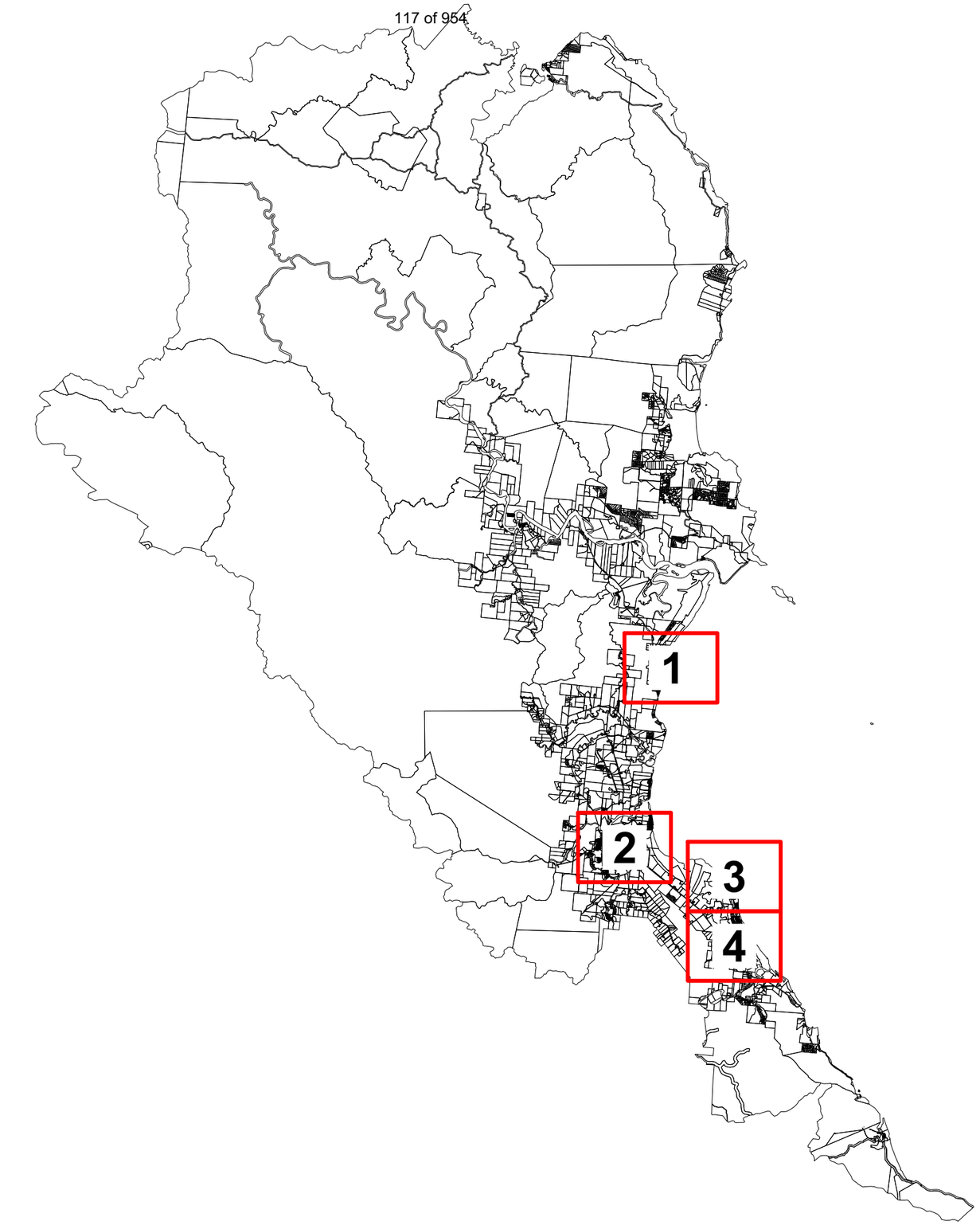
FUTURE INTERSECTIONS AND STRUCTURES

- BRIDGE
- CULVERT
- PRIORITY INTERSECTION

N

KEY MAP





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Revisions					
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A	ISSUED FOR REVIEW			

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Scale (A3 size): 1:360000

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Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: FUTURE TRANSPORT TRUNK INFRASTRUCTURE KEY MAP

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		05/09/17	1100-313	A

LEGEND

EXISTING TRANSPORT (SCR) TRUNK INFRASTRUCTURE

- HIGHWAY (SCR)
- SUB ARTERIAL (SCR)
- BRIDGE (SCR)
- CULVERT (SCR)
- ROUNDABOUT (SCR)

FUTURE TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

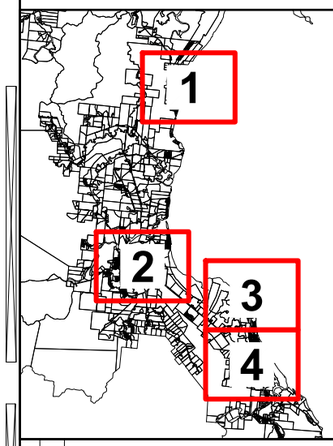
- SUB ARTERIAL
- URBAN MAJOR COLLECTOR
- RURAL MAJOR COLLECTOR
- URBAN MINOR COLLECTOR
- RURAL MINOR COLLECTOR
- DRAINAGE LINE
- ROAD UPGRADE
- AREAS UNDER INVESTIGATION

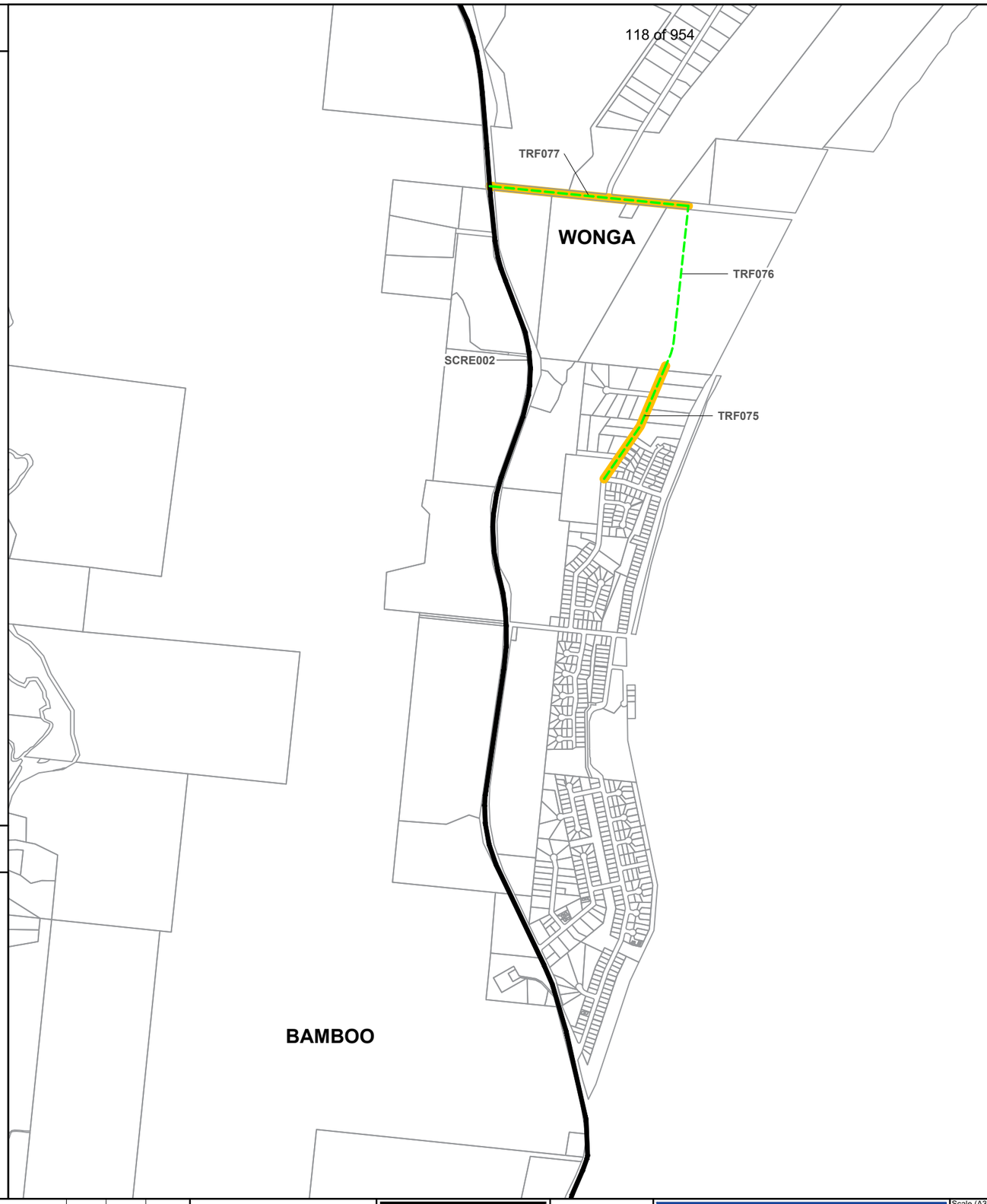
FUTURE INTERSECTIONS AND STRUCTURES

- BRIDGE
- CULVERT
- PRIORITY INTERSECTION

N

KEY MAP





DOUGLAS SHIRE SOUTH (TR1)

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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 1

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Client: DOUGLAS SHIRE COUNCIL
Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
Title: FUTURE TRANSPORT TRUNK INFRASTRUCTURE - GRID 1

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		05/09/17	1100-314	A

LEGEND

EXISTING TRANSPORT (SCR) TRUNK INFRASTRUCTURE

- HIGHWAY (SCR)
- SUB ARTERIAL (SCR)
- BRIDGE (SCR)
- CULVERT (SCR)
- ROUNDABOUT (SCR)

FUTURE TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

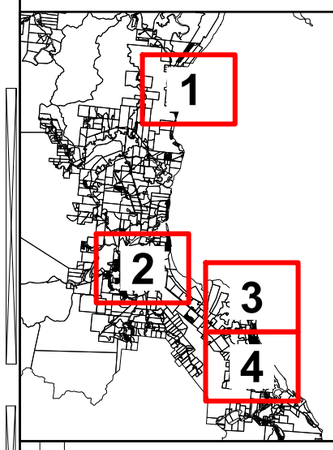
- SUB ARTERIAL
- URBAN MAJOR COLLECTOR
- RURAL MAJOR COLLECTOR
- URBAN MINOR COLLECTOR
- RURAL MINOR COLLECTOR
- DRAINAGE LINE
- ROAD UPGRADE
- AREAS UNDER INVESTIGATION

FUTURE INTERSECTIONS AND STRUCTURES

- BRIDGE
- CULVERT
- PRIORITY INTERSECTION

N

KEY MAP



SCRE001
SCRBE004
TRF044
TRF043
SCRCE002
SCRCE007
SCRE011
FUTURE TRANSPORT LINKS TO BE DEFINED
MOSSMAN GORGE
BONNIE DOON
DOUGLAS SHIRE SOUTH (TR1)
COOYA BEACH
TRF038
TRF037
TRF036
TRF039
TRF034
TRF033
TRF032
ISF001
SCRBE003
SCRE010
SCRBE002
SCRE005

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Revisions					
No.	Description		Reviewed	Approved	Date
A	ISSUED FOR REVIEW				

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Scale (A3 size)	Client	
1:20000	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP	
	Title: FUTURE TRANSPORT TRUNK INFRASTRUCTURE - GRID 2	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		05/09/17	1100-315	A

LEGEND

EXISTING TRANSPORT (SCR) TRUNK INFRASTRUCTURE

- HIGHWAY (SCR)
- SUB ARTERIAL (SCR)
- BRIDGE (SCR)
- CULVERT (SCR)
- ROUNDABOUT (SCR)

FUTURE TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

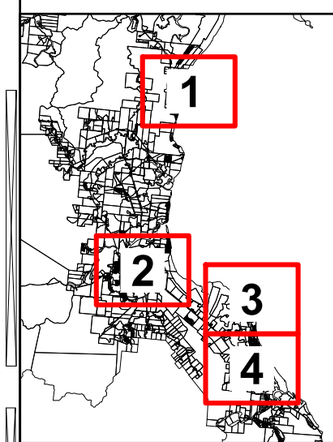
- SUB ARTERIAL
- URBAN MAJOR COLLECTOR
- RURAL MAJOR COLLECTOR
- URBAN MINOR COLLECTOR
- RURAL MINOR COLLECTOR
- DRAINAGE LINE
- ROAD UPGRADE
- AREAS UNDER INVESTIGATION

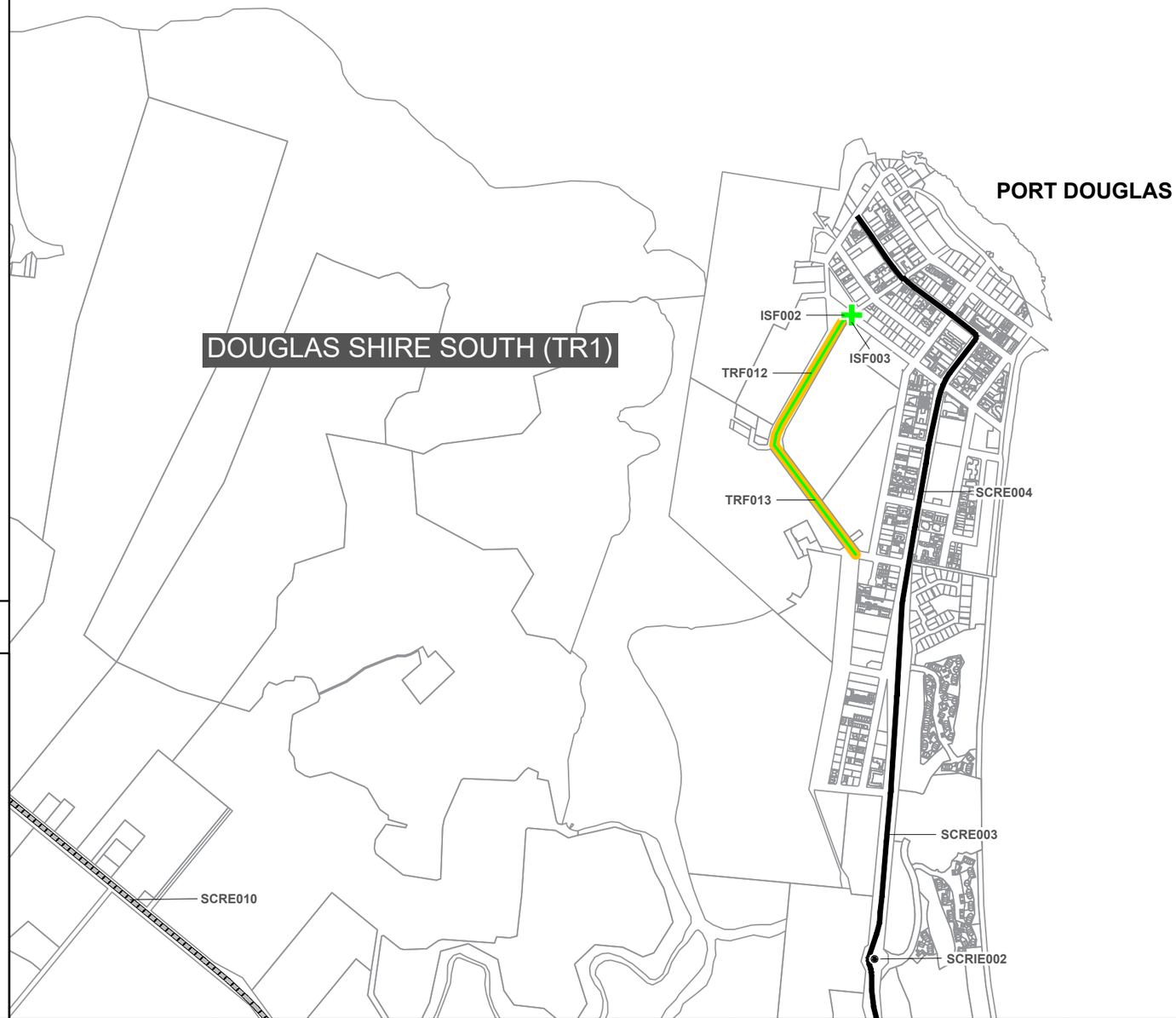
FUTURE INTERSECTIONS AND STRUCTURES

- BRIDGE
- CULVERT
- PRIORITY INTERSECTION

N

KEY MAP





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Revisions					
No.	Description		Reviewed	Approved	Date
A	ISSUED FOR REVIEW				

GRID: 3

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Scale (A3 size)	Client	
1:20000	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP	
	Title: FUTURE TRANSPORT TRUNK INFRASTRUCTURE - GRID 3	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		05/09/17	1100-316	A

LEGEND

EXISTING TRANSPORT (SCR) TRUNK INFRASTRUCTURE

- HIGHWAY (SCR)
- SUB ARTERIAL (SCR)
- BRIDGE (SCR)
- CULVERT (SCR)
- ROUNDABOUT (SCR)

FUTURE TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

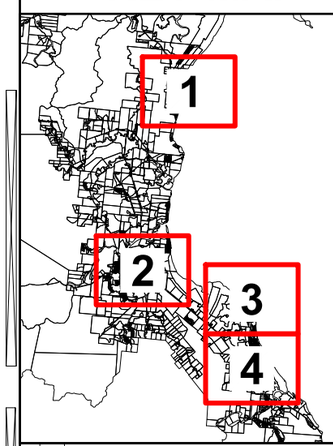
- SUB ARTERIAL
- URBAN MAJOR COLLECTOR
- RURAL MAJOR COLLECTOR
- URBAN MINOR COLLECTOR
- RURAL MINOR COLLECTOR
- DRAINAGE LINE
- ROAD UPGRADE
- AREAS UNDER INVESTIGATION
- POTENTIAL FUTURE TRANSPORT CORRIDOR

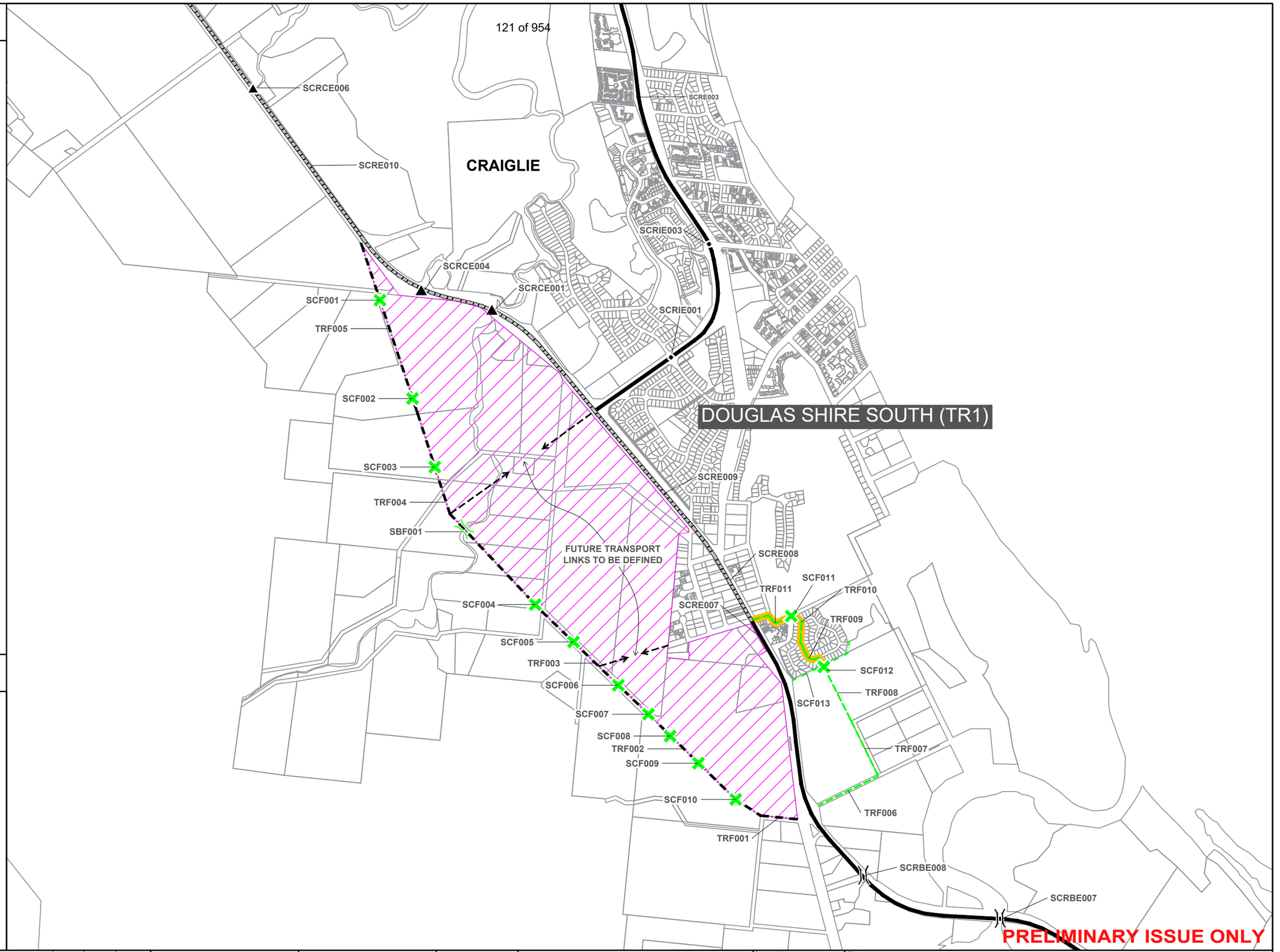
FUTURE INTERSECTIONS AND STRUCTURES

- BRIDGE
- CULVERT
- PRIORITY INTERSECTION

N

KEY MAP





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Revisions

No.	Description	Reviewed	Approved	Date
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GRID: 4

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Scale (A3 size)	Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
1:20000	IM	RR	RR	RR	R RANKINE		05/09/17	1100-317	A

Drawing is not to be used for construction unless approved.

Client: DOUGLAS SHIRE COUNCIL
Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
Title: FUTURE TRANSPORT TRUNK INFRASTRUCTURE - GRID 4

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

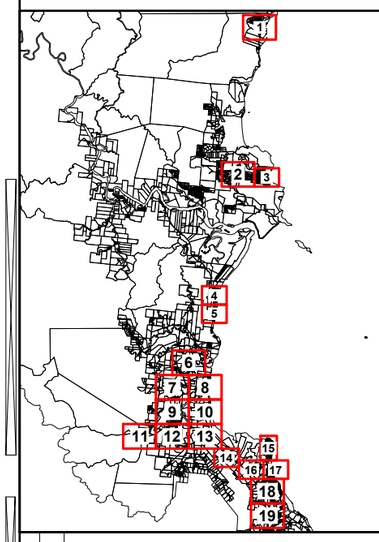
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

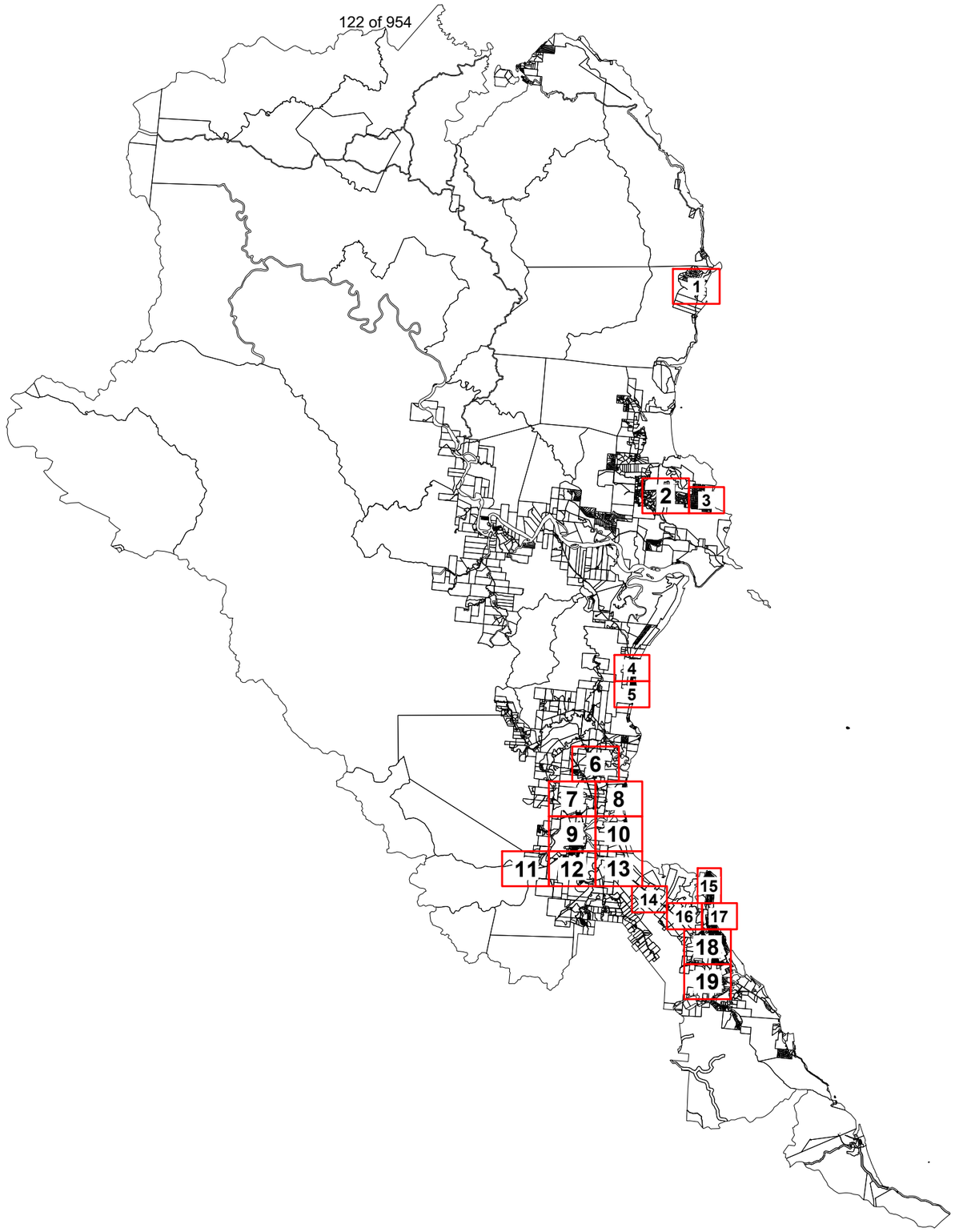
EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP





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No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

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Scale (A3 size)	Client
1:360000	DOUGLAS SHIRE COUNCIL
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
	Title: TRUNK FOOTPATH INFRASTRUCTURE KEY MAP

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		08/08/17	1100-151	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

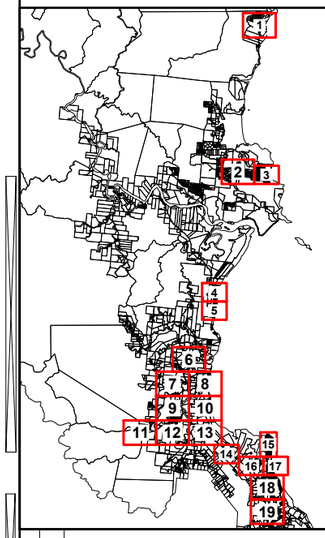
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP



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Revisions					
A	ISSUED FOR REVIEW				
No.	Description	Reviewed	Approved	Date	

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Scale (A3 size)	Client
1:10000	DOUGLAS SHIRE COUNCIL
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
	Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 1

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-152	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

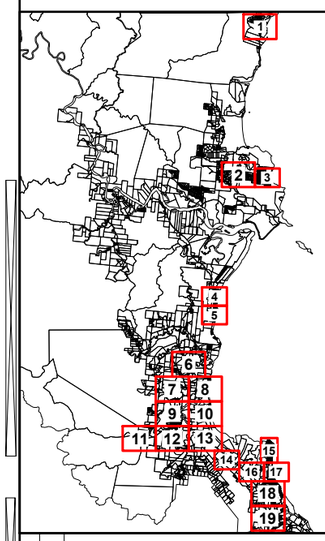
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP



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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 2

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Scale (A3 size): 1:10000

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Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: TRUNK INFRASTRUCTURE NETWORK - GRID 2

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-153	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

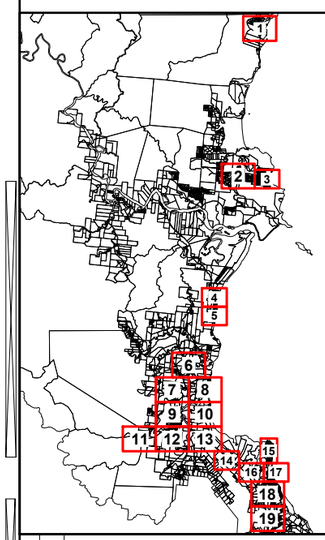
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP



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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 3

DOUGLAS SHIRE COUNCIL
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www.trinityengineering.com.au Email admin@trinityengineering.com.au

Scale (A3 size)	Client	
1:7500	DOUGLAS SHIRE COUNCIL	
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	Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 3	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-154	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

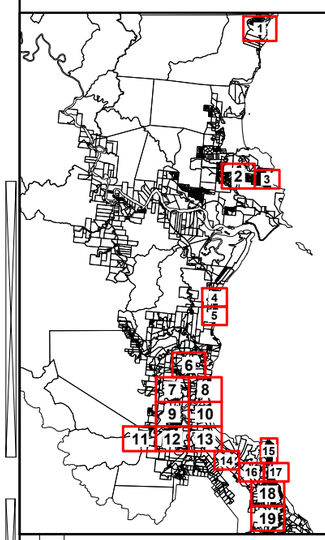
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP



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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 4

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Scale (A3 size)	Client	
1:7500	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project	1100 DOUGLAS SHIRE COUNCIL LGIP
	Title	TRUNK FOOTPATH INFRASTRUCTURE - GRID 4

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-155	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

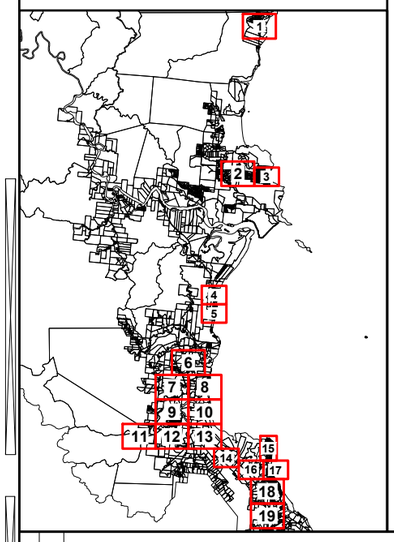
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP



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Revisions				
A	ISSUED FOR REVIEW			

GRID: 5

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Scale (A3 size)	Client	
1:7500	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP	
	Title: TRUNK FOOTPATH INFRASTRUCTURE- GRID 5	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
							1100-152	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

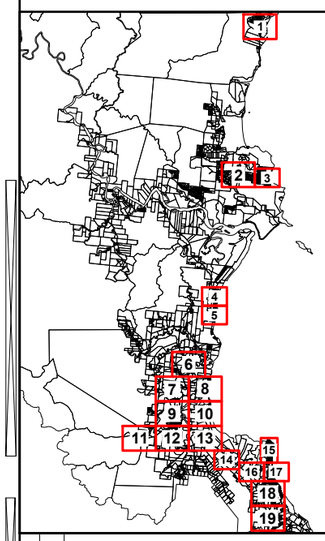
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP



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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 6

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Scale (A3 size): 1:10000

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Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 6

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-157	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

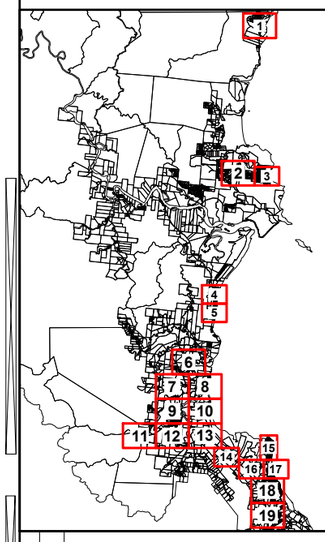
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

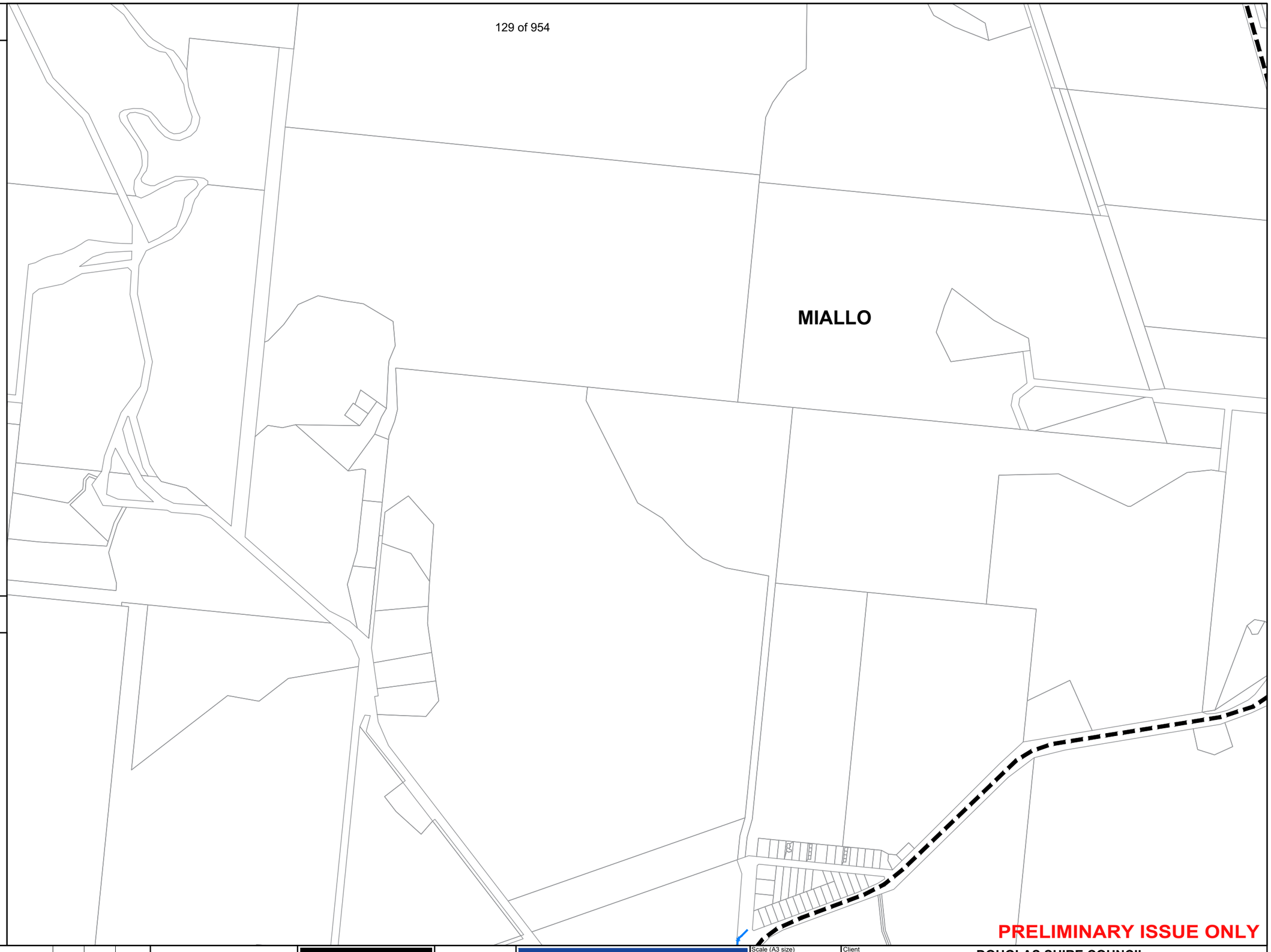
EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 7

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Scale (A3 size)	Client	
1:10000	DOUGLAS SHIRE COUNCIL	
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	Title	TRUNK FOOTPATH INFRASTRUCTURE - GRID 7

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-158	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

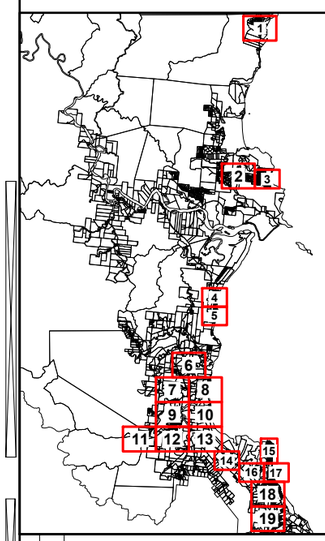
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP



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Revisions					
A	ISSUED FOR REVIEW				
No.	Description	Reviewed	Approved	Date	

GRID: 8

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Scale (A3 size)	Client	DOUGLAS SHIRE COUNCIL
1:10000	Project	1100 DOUGLAS SHIRE COUNCIL LGIP
Drawing is not to be used for construction unless approved.	Title	TRUNK FOOTPATH INFRASTRUCTURE - GRID 8

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-159	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

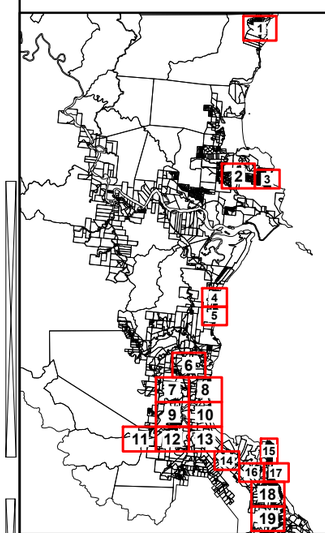
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

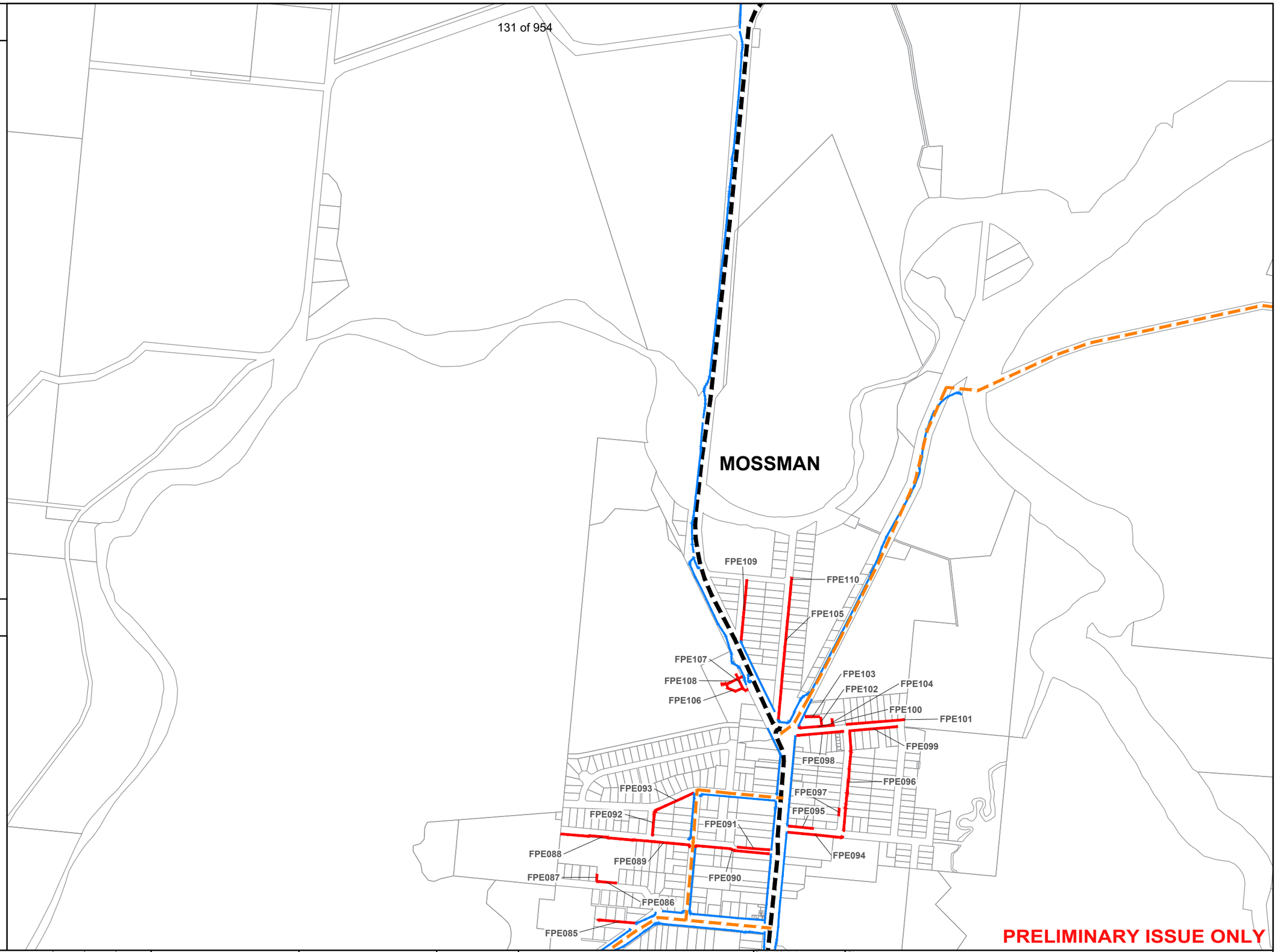
EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 9

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Scale (A3 size)	Client	
1:10000	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP	
	Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 9	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-1##	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

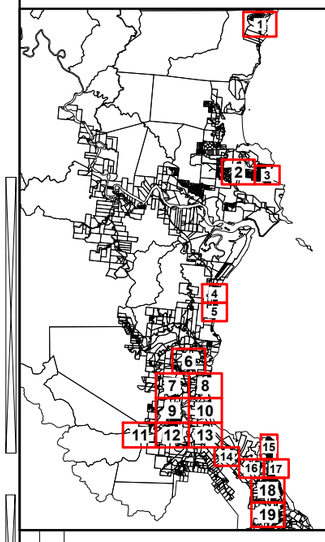
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

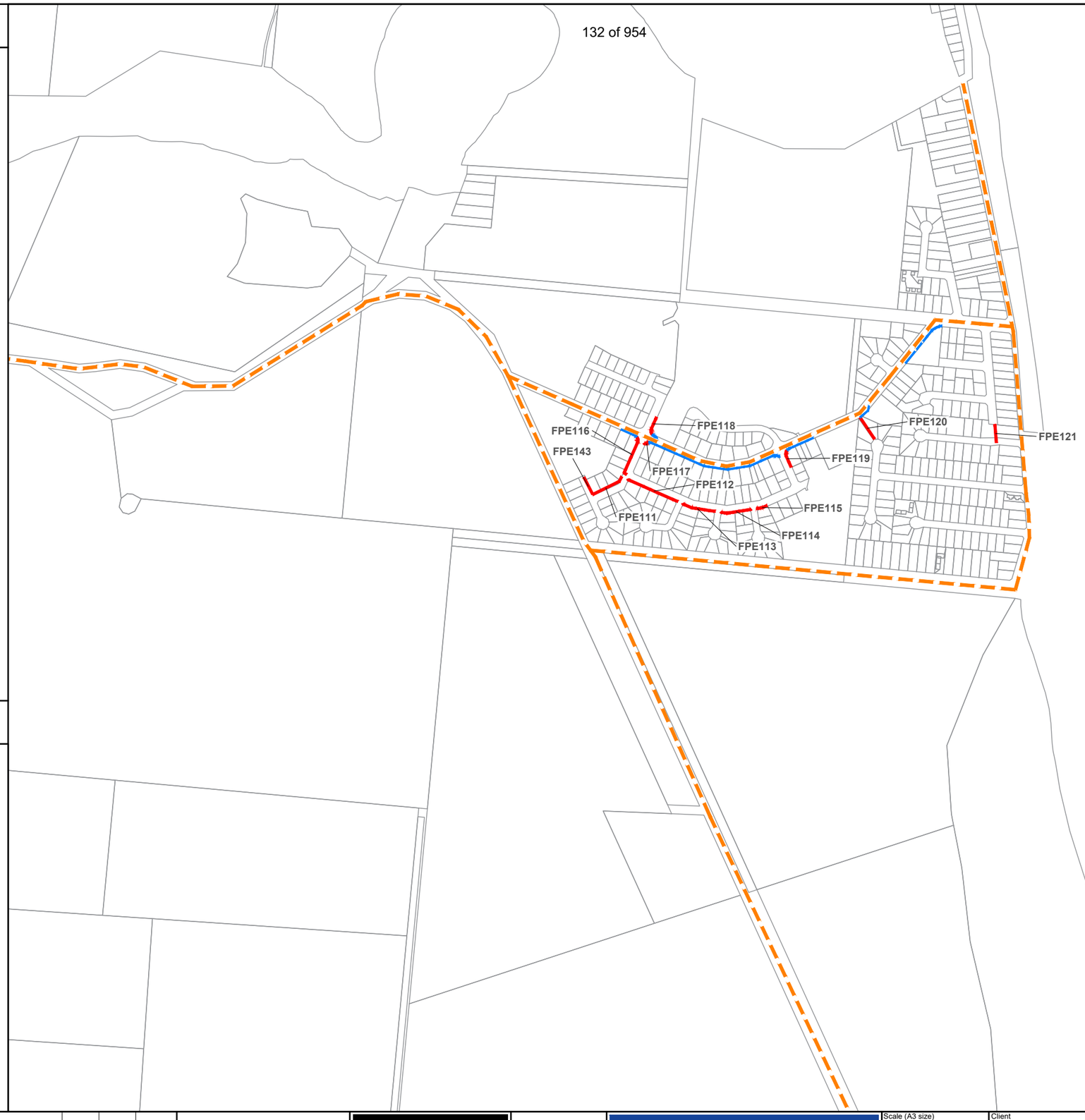
EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 10

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Scale (A3 size)	Client
1:10000	DOUGLAS SHIRE COUNCIL
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	Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 10

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-1##	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

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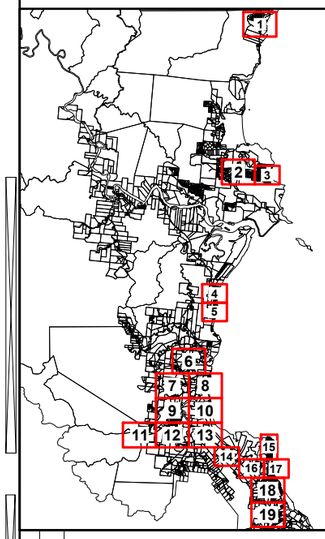

MOSSMAN GORGE

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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 11

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Scale (A3 size)	Client	
1:10000	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project	1100 DOUGLAS SHIRE COUNCIL LGIP
	Title	TRUNK FOOTPATH INFRASTRUCTURE - GRID 11

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-1##	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

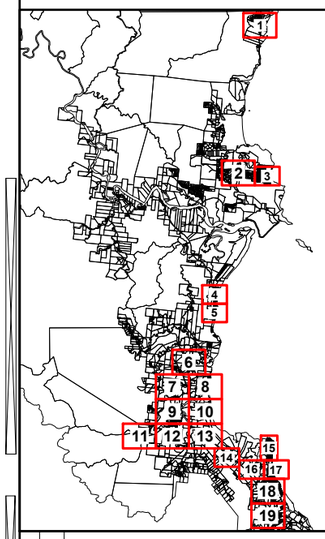
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

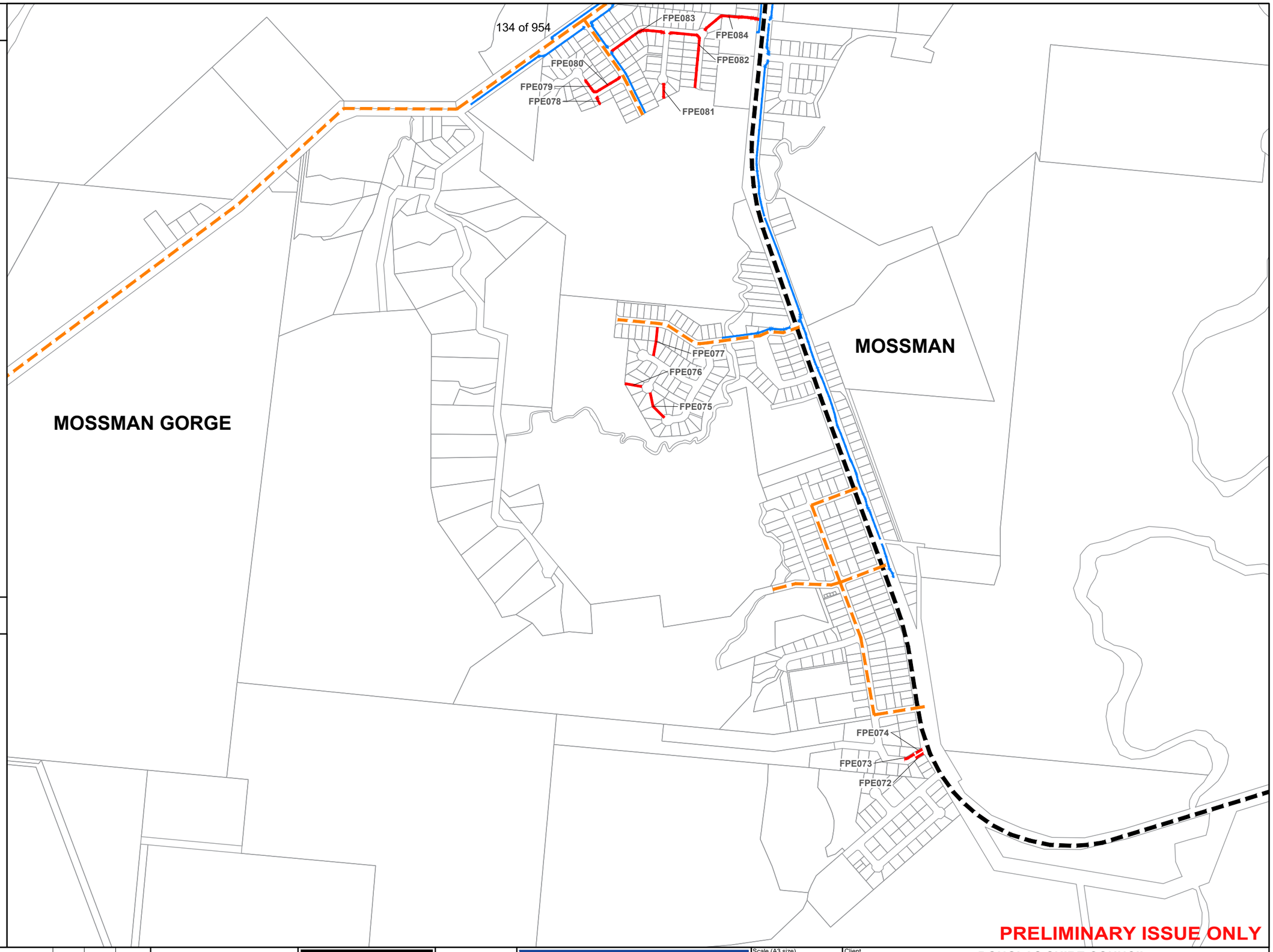
EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 12

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Scale (A3 size)	Client	
1:10000	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP	
	Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 12	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-1##	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

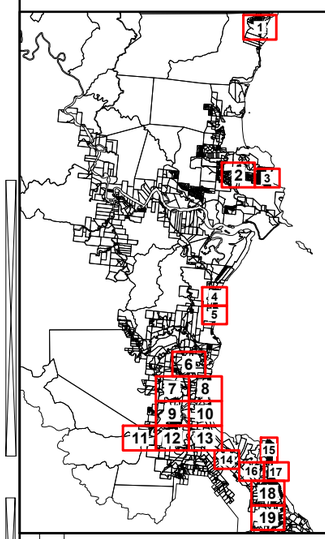
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP



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Revisions					
No.	Description		Reviewed	Approved	Date
A	ISSUED FOR REVIEW				

GRID: 13

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Scale (A3 size): 1:10000

Drawing is not to be used for construction unless approved.

Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 13

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-1##	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

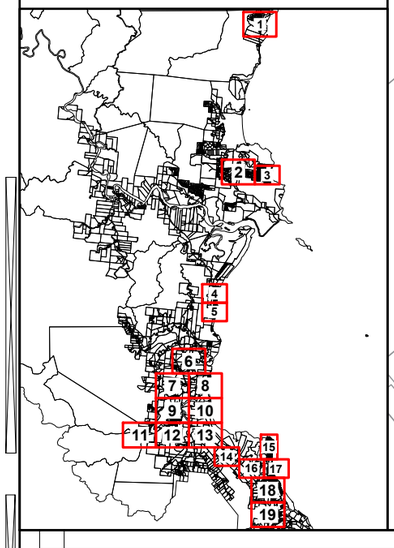
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP



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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 14

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Scale (A3 size): 1:7500

Drawing is not to be used for construction unless approved.

Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 14

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-1##	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

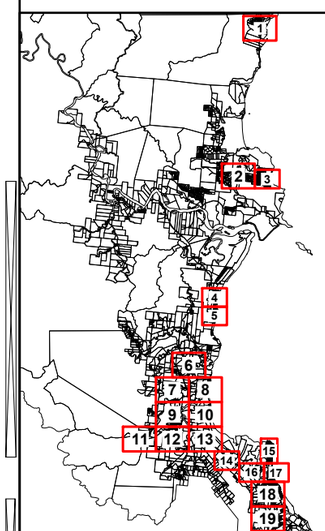
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

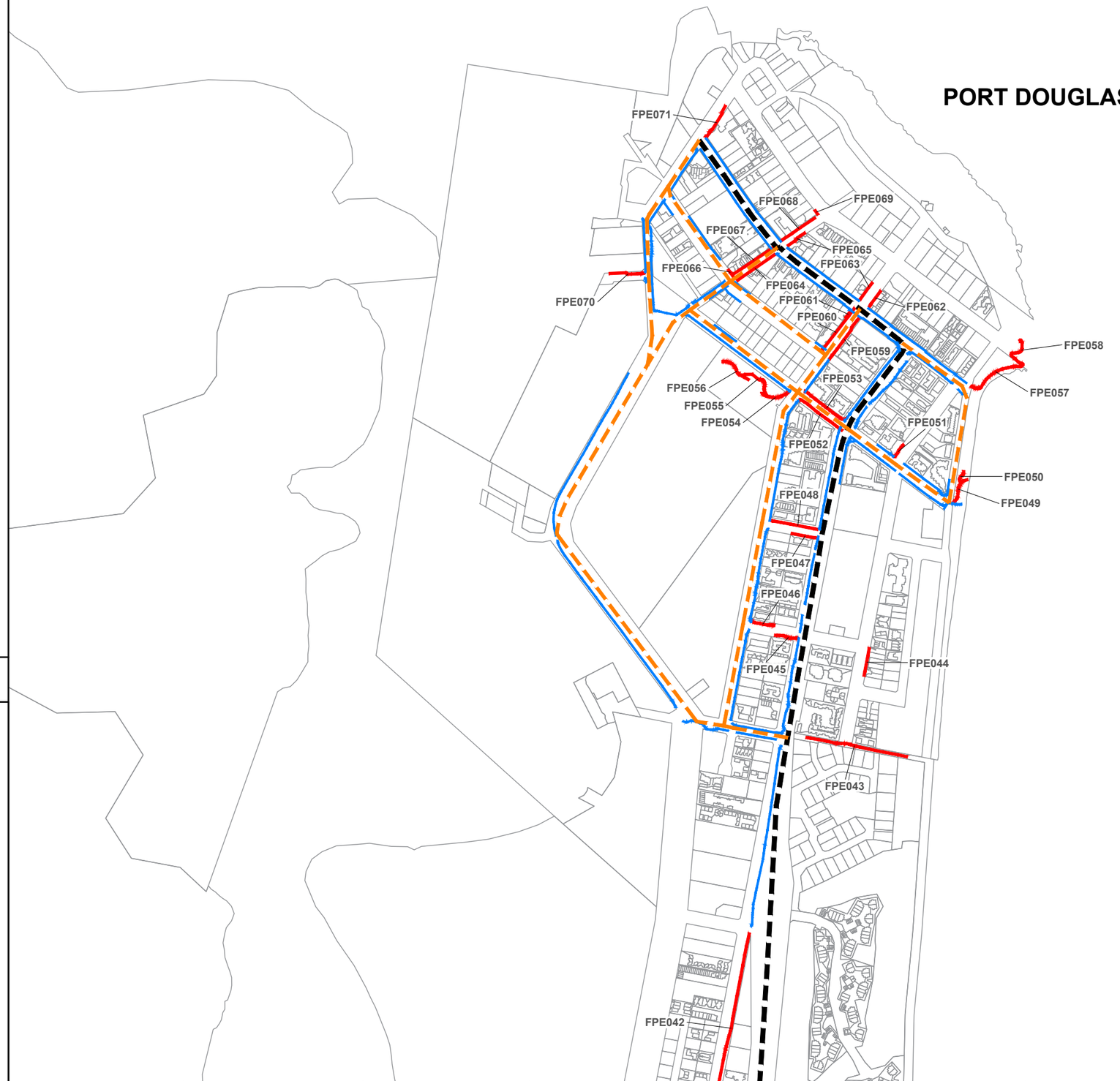
EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 15

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Scale (A3 size)	Client	
1:10000	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP	
	Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 15	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-1##	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

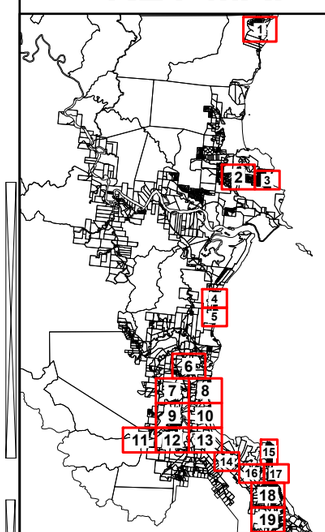
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP



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Revisions					
No.	Description		Reviewed	Approved	Date
A	ISSUED FOR REVIEW				

GRID: 16

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Scale (A3 size)	Client	
1:7500	DOUGLAS SHIRE COUNCIL	
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	Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 16	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-1##	A

LEGEND

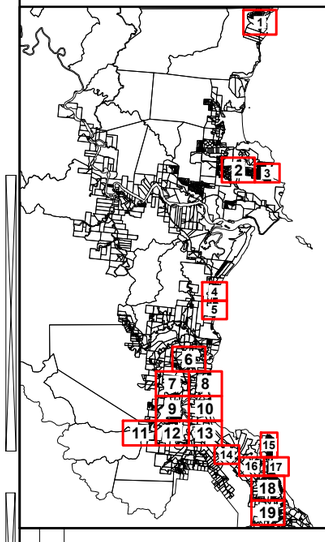
EXISTING FOOTPATH TRUNK INFRASTRUCTURE

- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

KEY MAP



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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 17

DOUGLAS SHIRE COUNCIL
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Scale (A3 size)	Client	
1:7500	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP	
	Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 17	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-1##	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

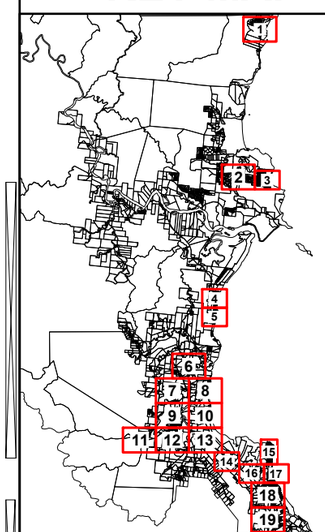
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP



PORT DOUGLAS

FPE033, FPE032, FPE031, FPE030, FPE029, FPE028, FPE027, FPE026, FPE025, FPE024, FPE023, FPE022, FPE021, FPE020, FPE019, FPE018, FPE017, FPE016, FPE015, FPE014, FPE013, FPE012, FPE011, FPE010, FPE009, FPE008, FPE007, FPE006, FPE005, FPE004, FPE003, FPE002, FPE001

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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 18

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Scale (A3 size)	1:10000
	Drawing is not to be used for construction unless approved.
Client	DOUGLAS SHIRE COUNCIL
Project	1100 DOUGLAS SHIRE COUNCIL LGIP
Title	TRUNK FOOTPATH INFRASTRUCTURE - GRID 18

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-1##	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

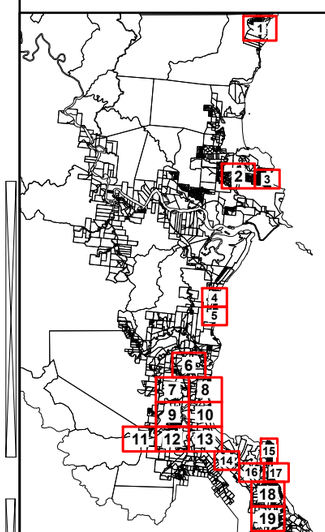
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP



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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 19

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Scale (A3 size)	Client
1:10000	DOUGLAS SHIRE COUNCIL
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
	Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 19

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-1##	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

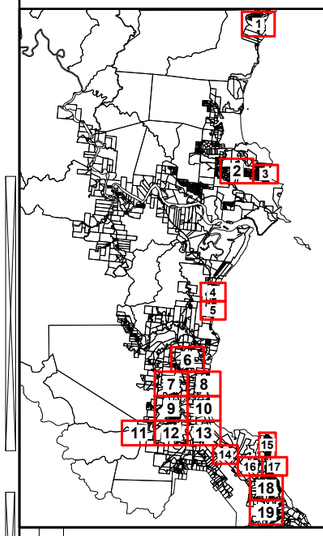
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

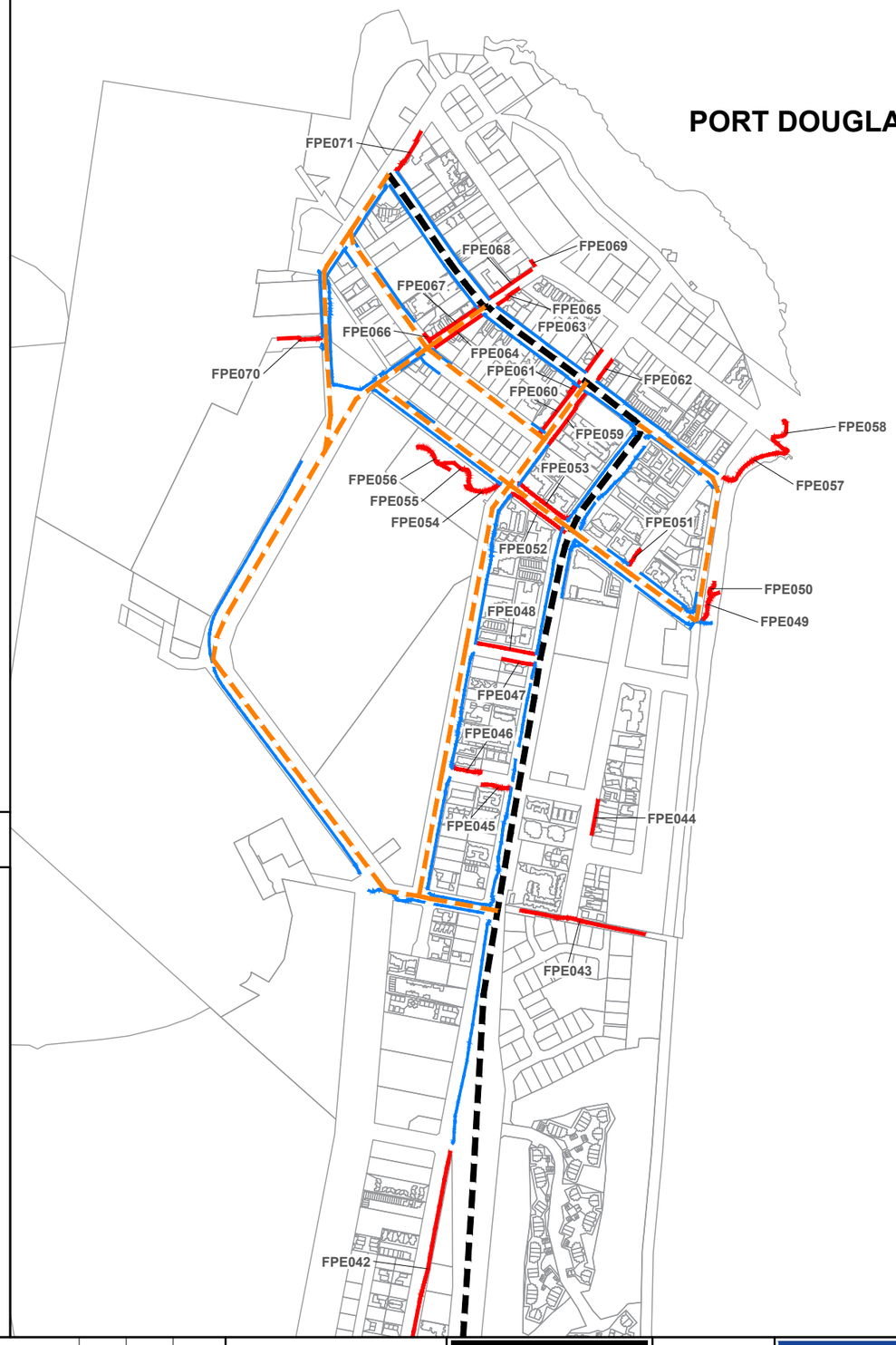
- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP



PORT DOUGLAS



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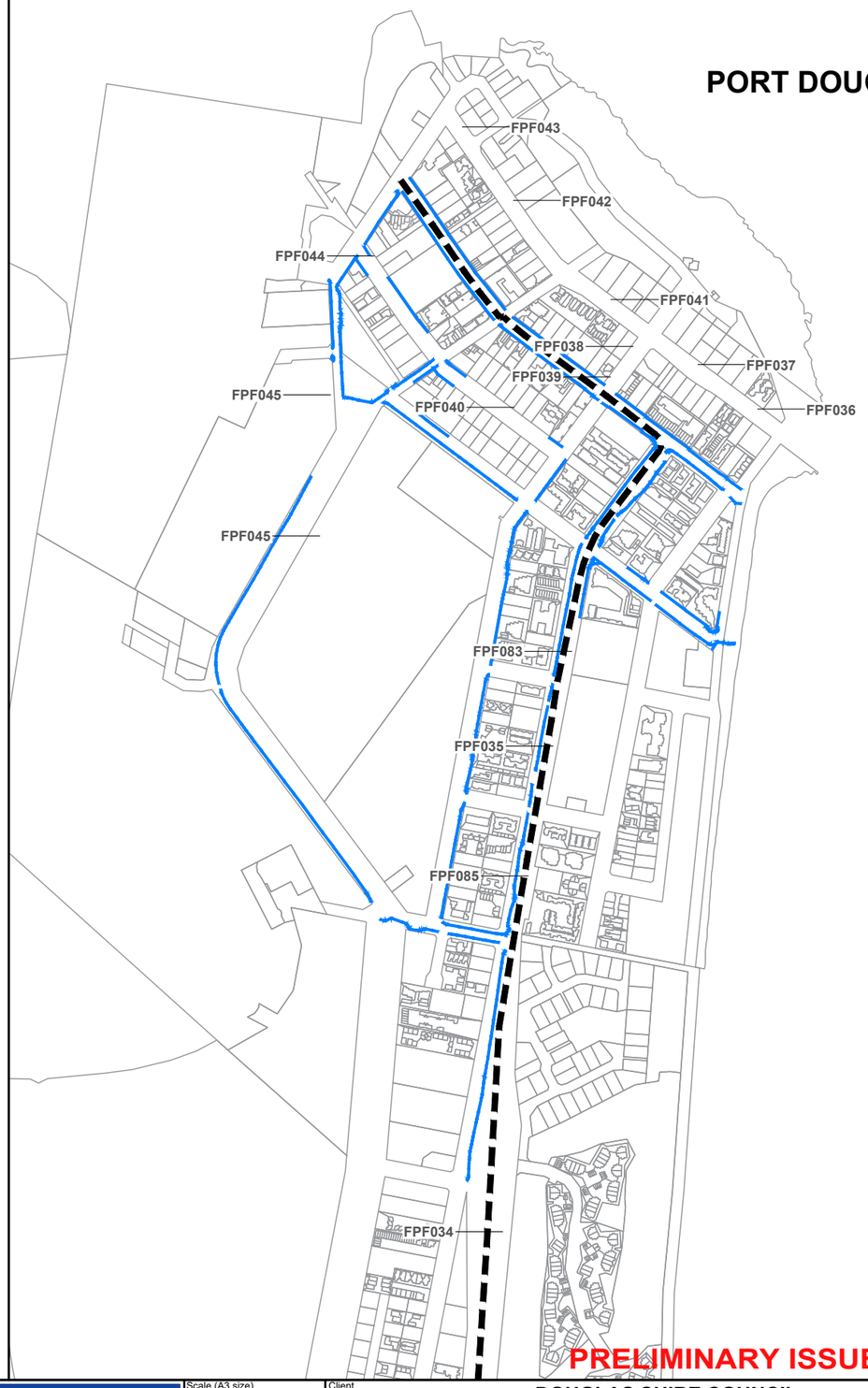

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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 15

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Scale (A3 size)	Client	
1:10000	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project	1100 DOUGLAS SHIRE COUNCIL LGIP
	Title	TRUNK FOOTPATH INFRASTRUCTURE - GRID 15

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-157	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

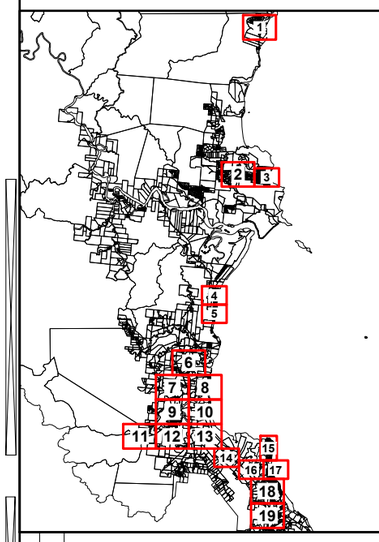
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

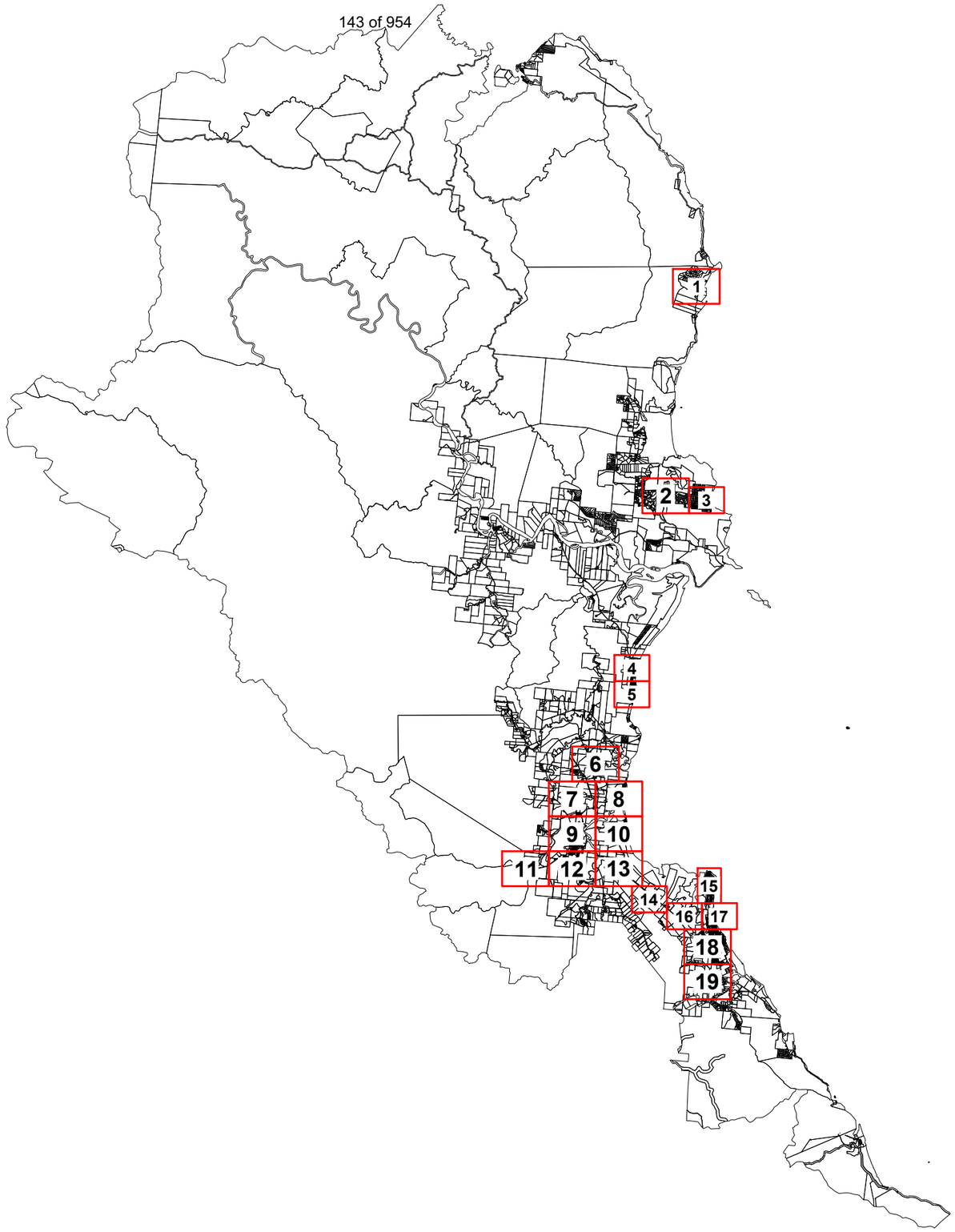
EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP





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No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

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Scale (A3 size)	Client
1:360000	DOUGLAS SHIRE COUNCIL
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	Title: TRUNK FOOTPATH INFRASTRUCTURE KEY MAP

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		08/08/17	1100-151	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

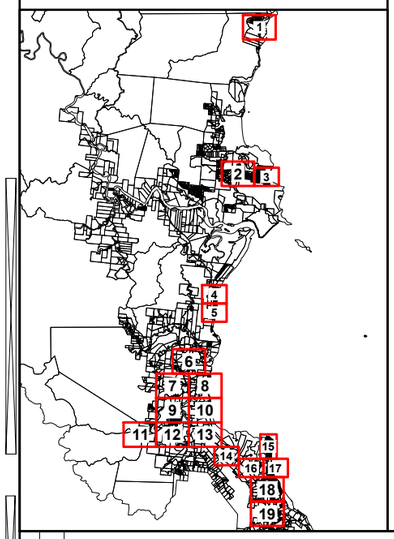
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP



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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 1

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Scale (A3 size): 1:10000

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Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 1

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-152	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

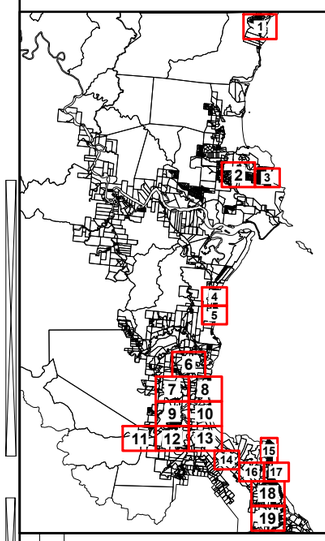
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP



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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 2

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Client	DOUGLAS SHIRE COUNCIL							
Project	1100 DOUGLAS SHIRE COUNCIL LGIP							
Title	TRUNK INFRASTRUCTURE NETWORK - GRID 2							
Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-153	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

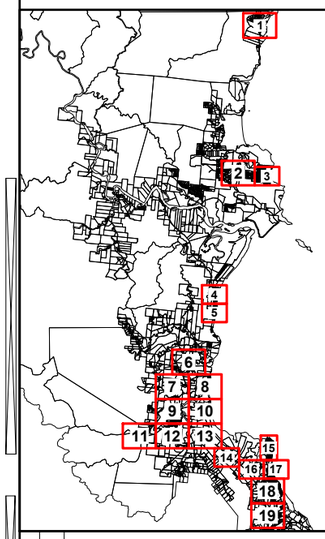
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP



COW BAY

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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 3

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Scale (A3 size)	1:7500
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Client	DOUGLAS SHIRE COUNCIL
Project	1100 DOUGLAS SHIRE COUNCIL LGIP
Title	TRUNK FOOTPATH INFRASTRUCTURE - GRID 3

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-154	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

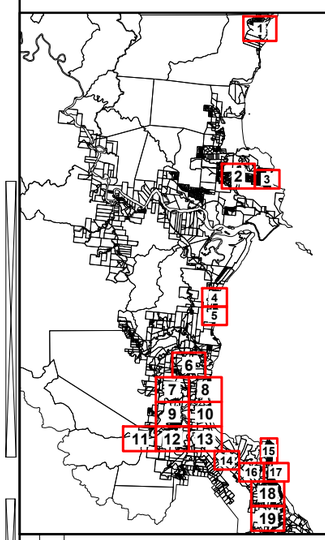
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP



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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 4

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Scale (A3 size)	Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
1:7500	IM	RR	RR	RR	R RANKINE		16/08/17	1100-155	A

Drawing is not to be used for construction unless approved.

Client: DOUGLAS SHIRE COUNCIL
Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 4

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

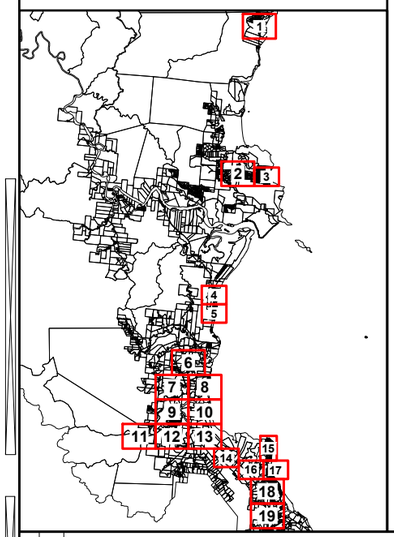
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP



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Revisions				
A	ISSUED FOR REVIEW			

GRID: 5

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Scale (A3 size)	Client	
1:7500	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP	
	Title: TRUNK FOOTPATH INFRASTRUCTURE- GRID 5	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
							1100-152	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

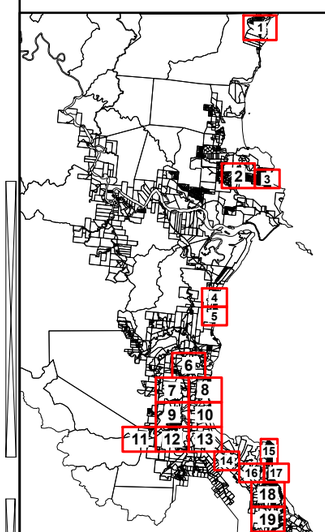
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP



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FPF076

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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 6

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Scale (A3 size)	Client
1:10000	DOUGLAS SHIRE COUNCIL
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	Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 6

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-157	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

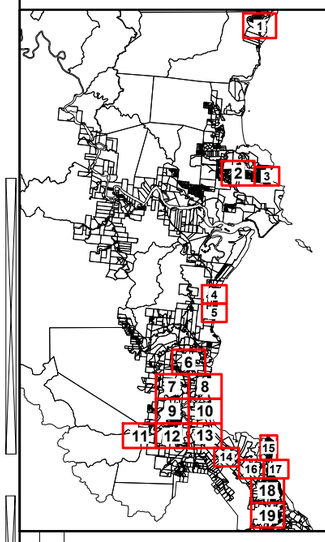
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP



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FPF075

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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 7

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Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 7

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-158	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

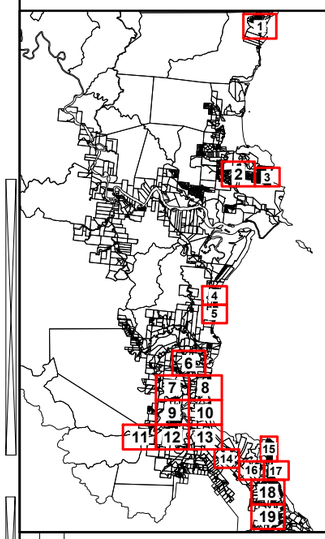
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

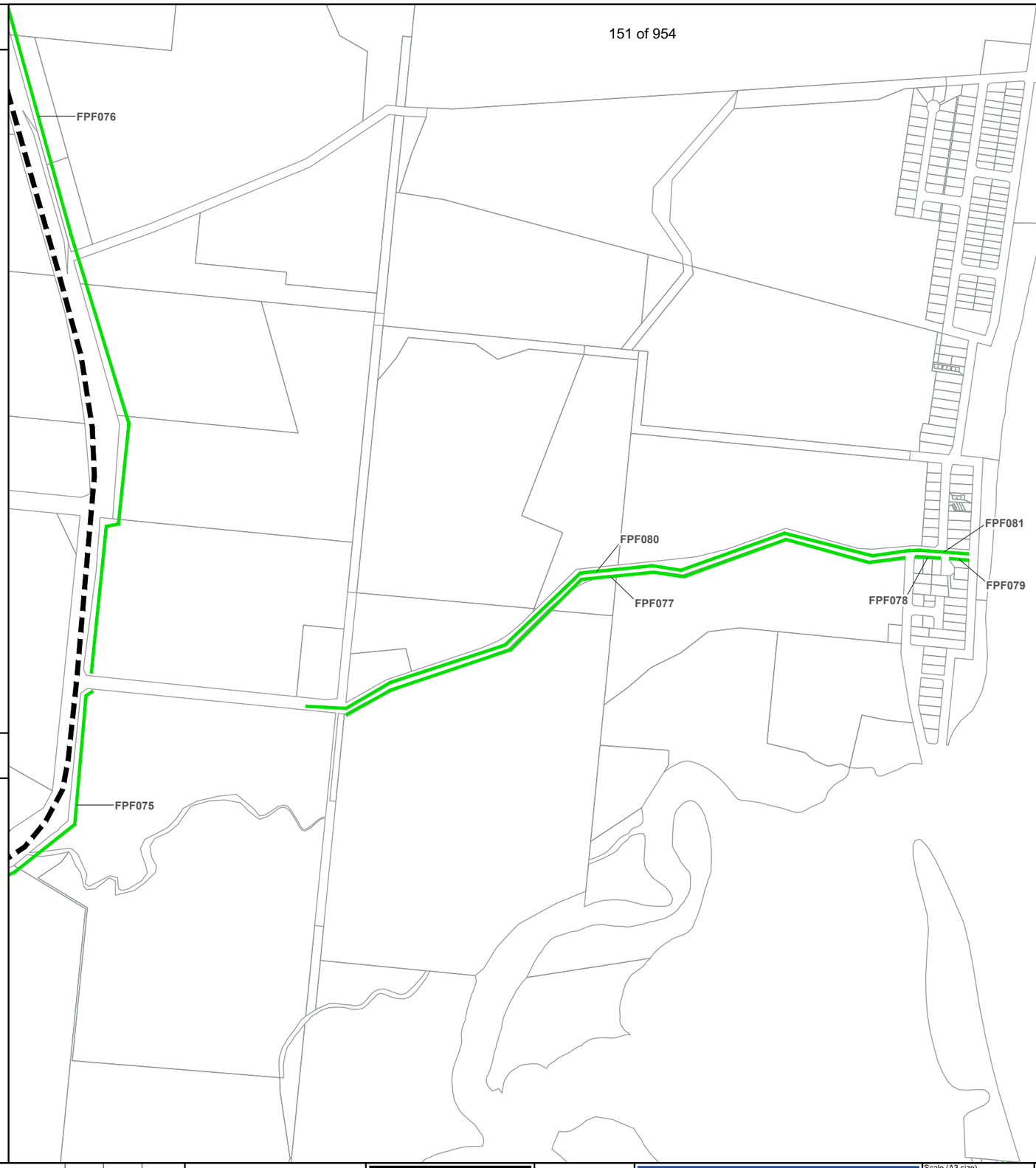
EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 8

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Scale (A3 size)	Client	
1:10000	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project	1100 DOUGLAS SHIRE COUNCIL LGIP
	Title	TRUNK FOOTPATH INFRASTRUCTURE - GRID 8

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-159	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

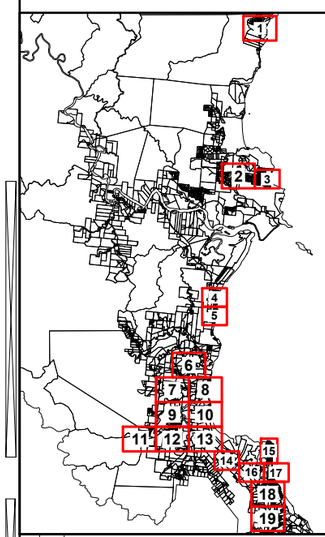
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

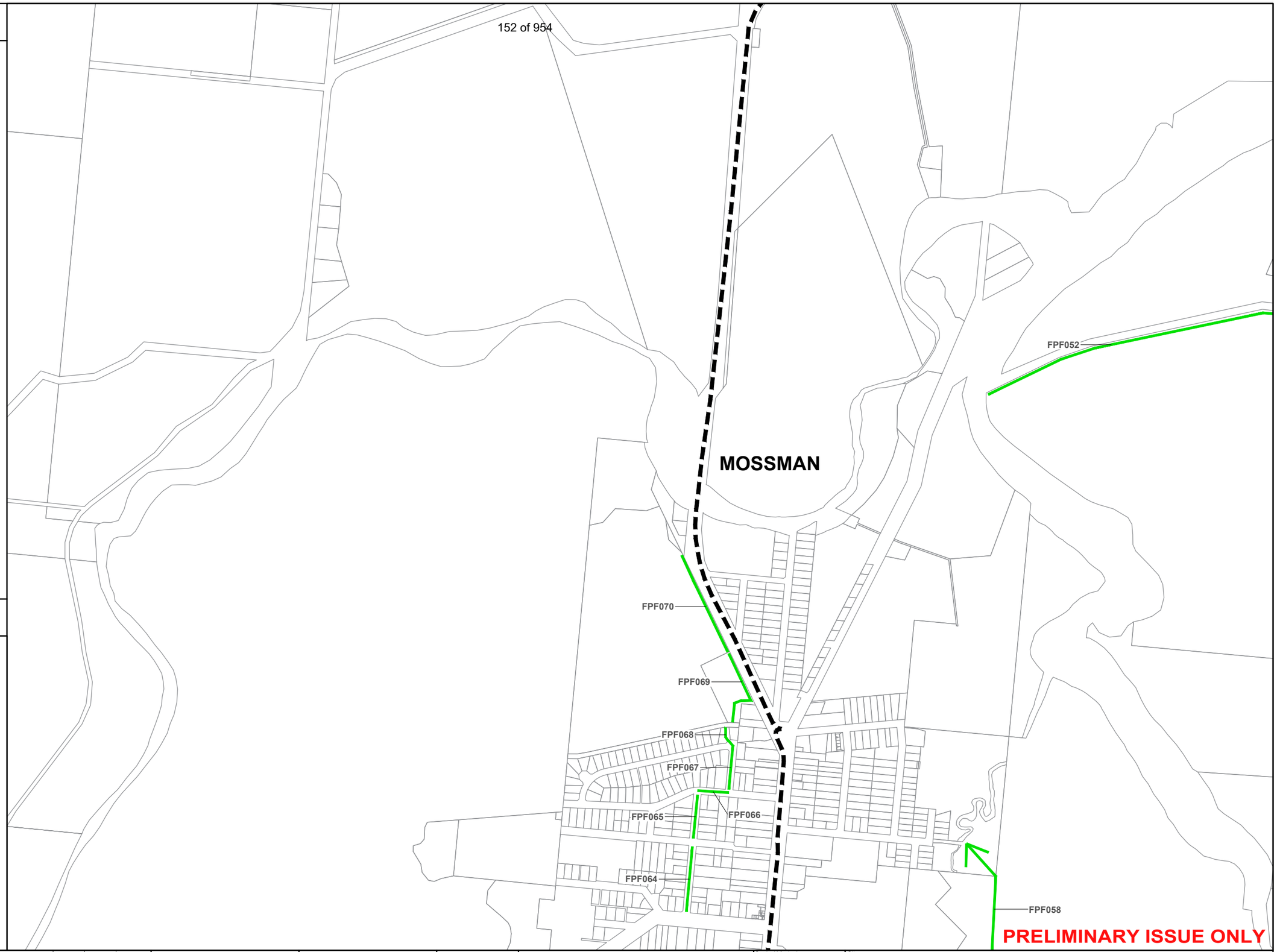
EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 9

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Scale (A3 size)	Client	
1:10000	DOUGLAS SHIRE COUNCIL	
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	Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 9	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-1##	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

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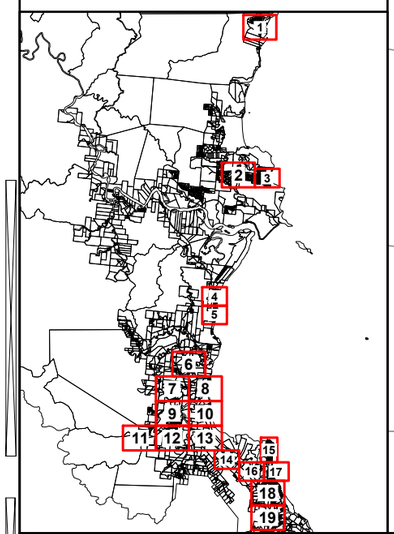
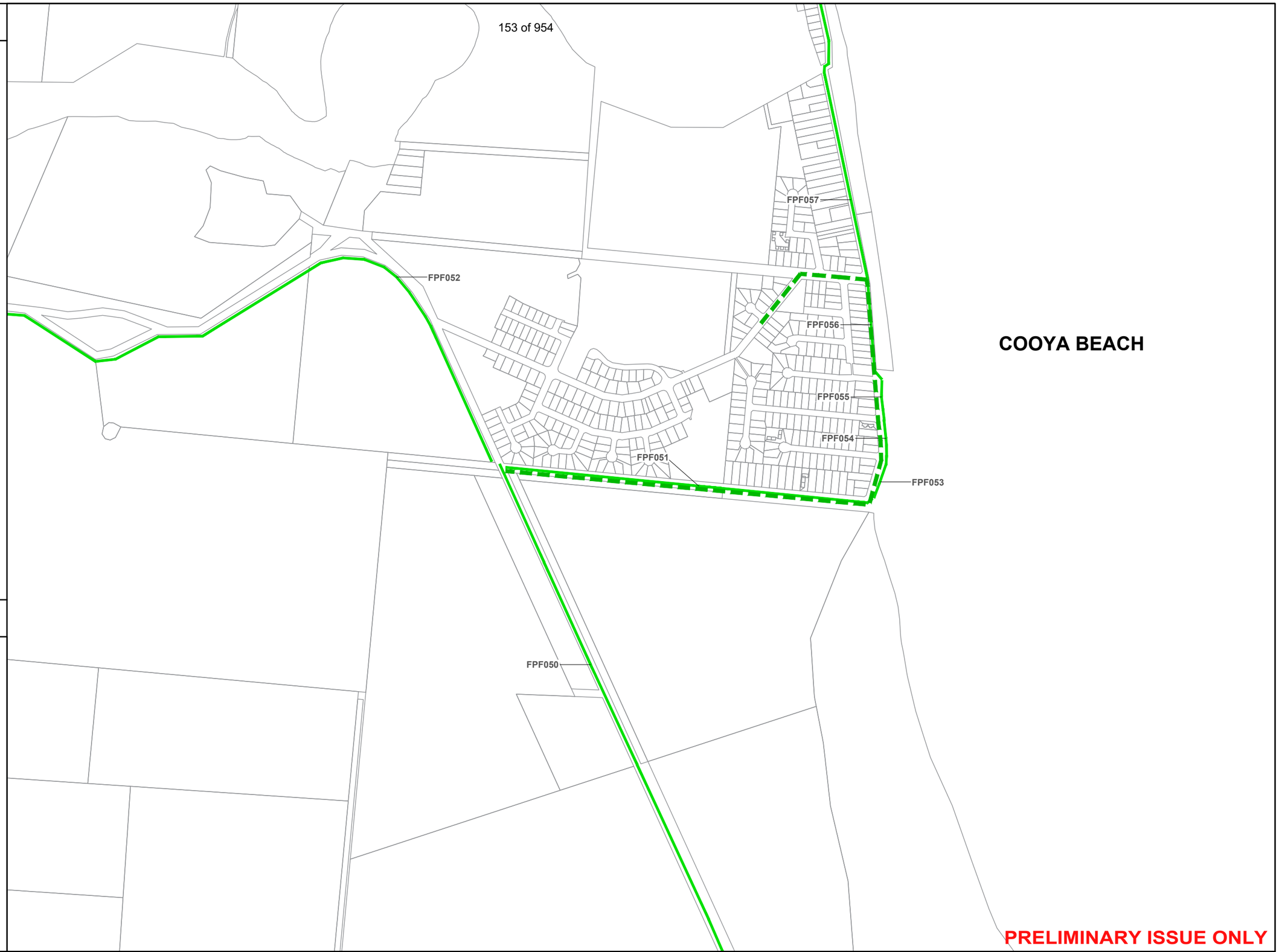
KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 10

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Scale (A3 size): 1:10000

Drawing is not to be used for construction unless approved.

Client: DOUGLAS SHIRE COUNCIL
Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 10

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-1##	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

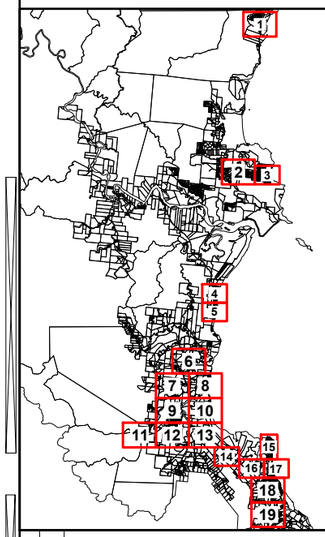
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

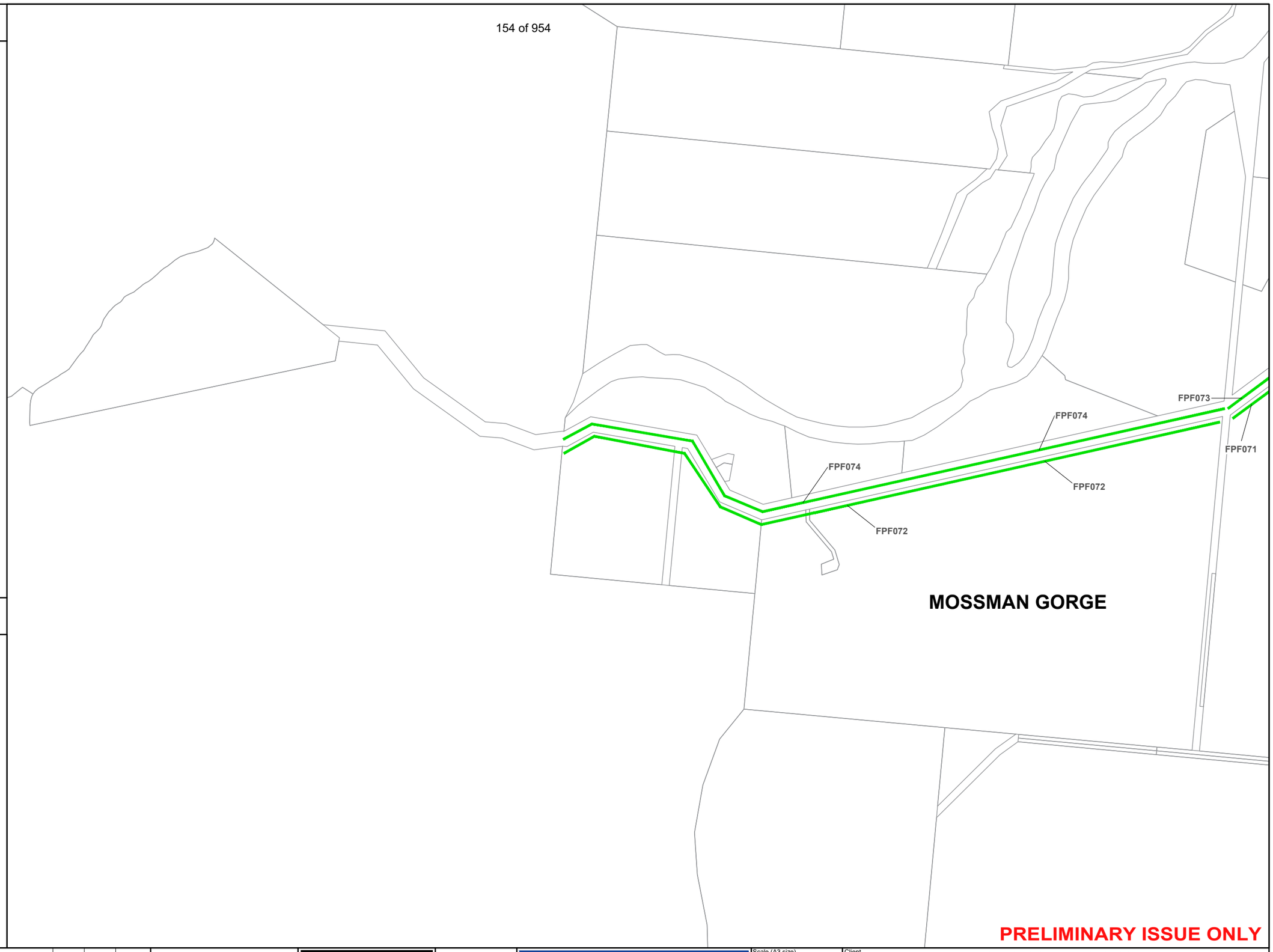
EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date
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GRID: 11

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Scale (A3 size): 1:10000

Drawing is not to be used for construction unless approved.

Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 11

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-1##	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

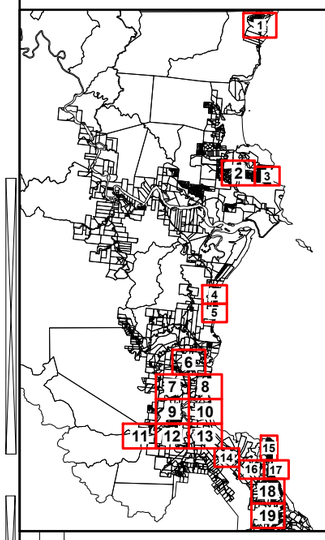
- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

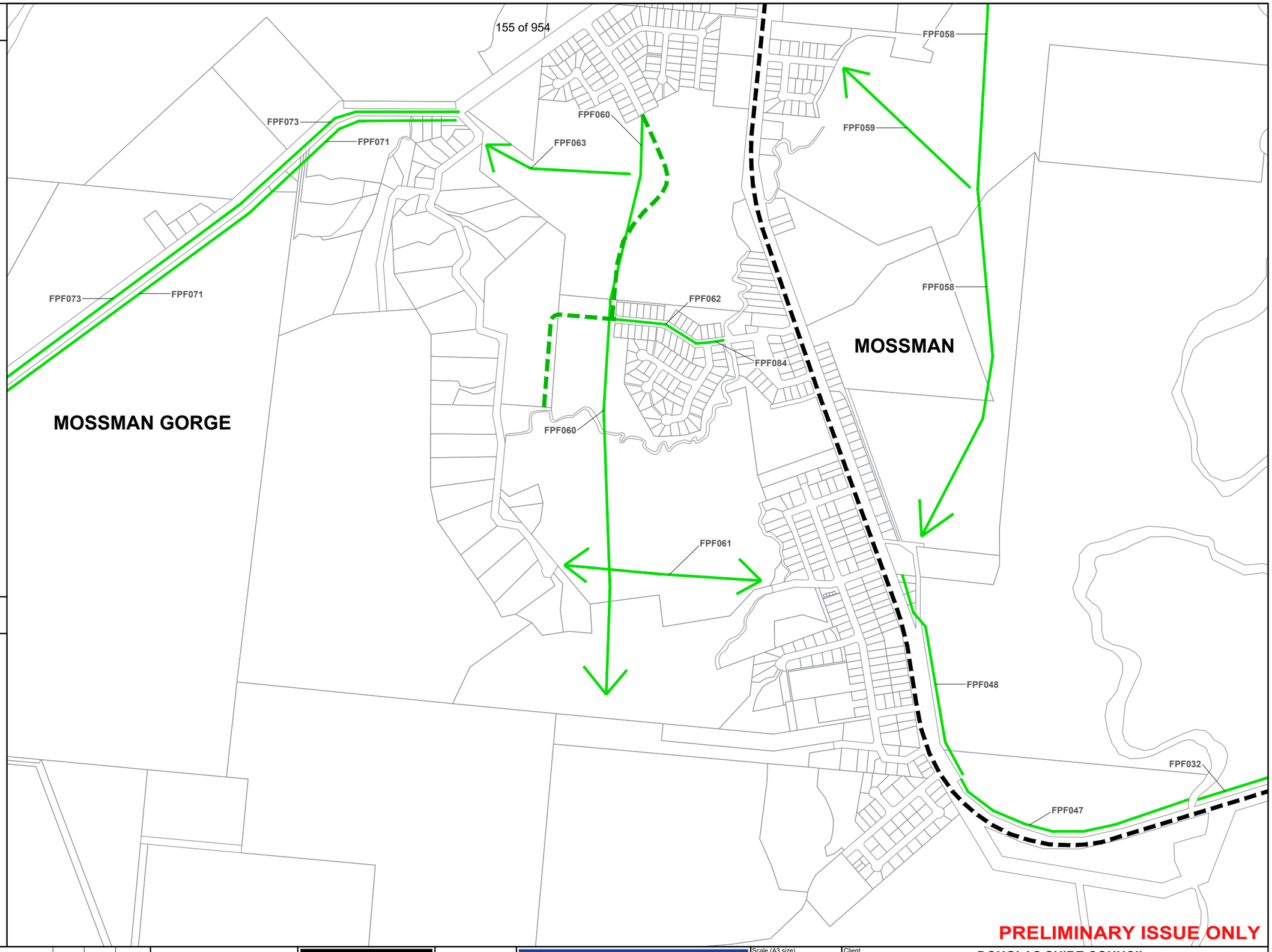
EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date
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GRID: 12

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Scale (A3 size)	Client	
1:10000	DOUGLAS SHIRE COUNCIL	
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	Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 12	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-1##	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

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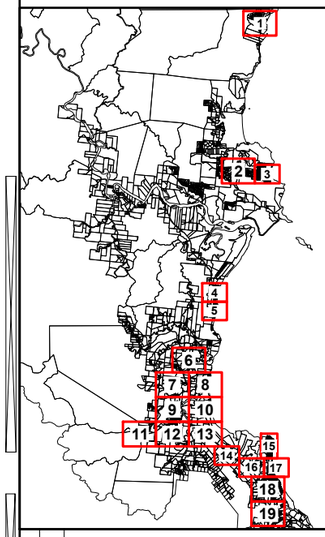

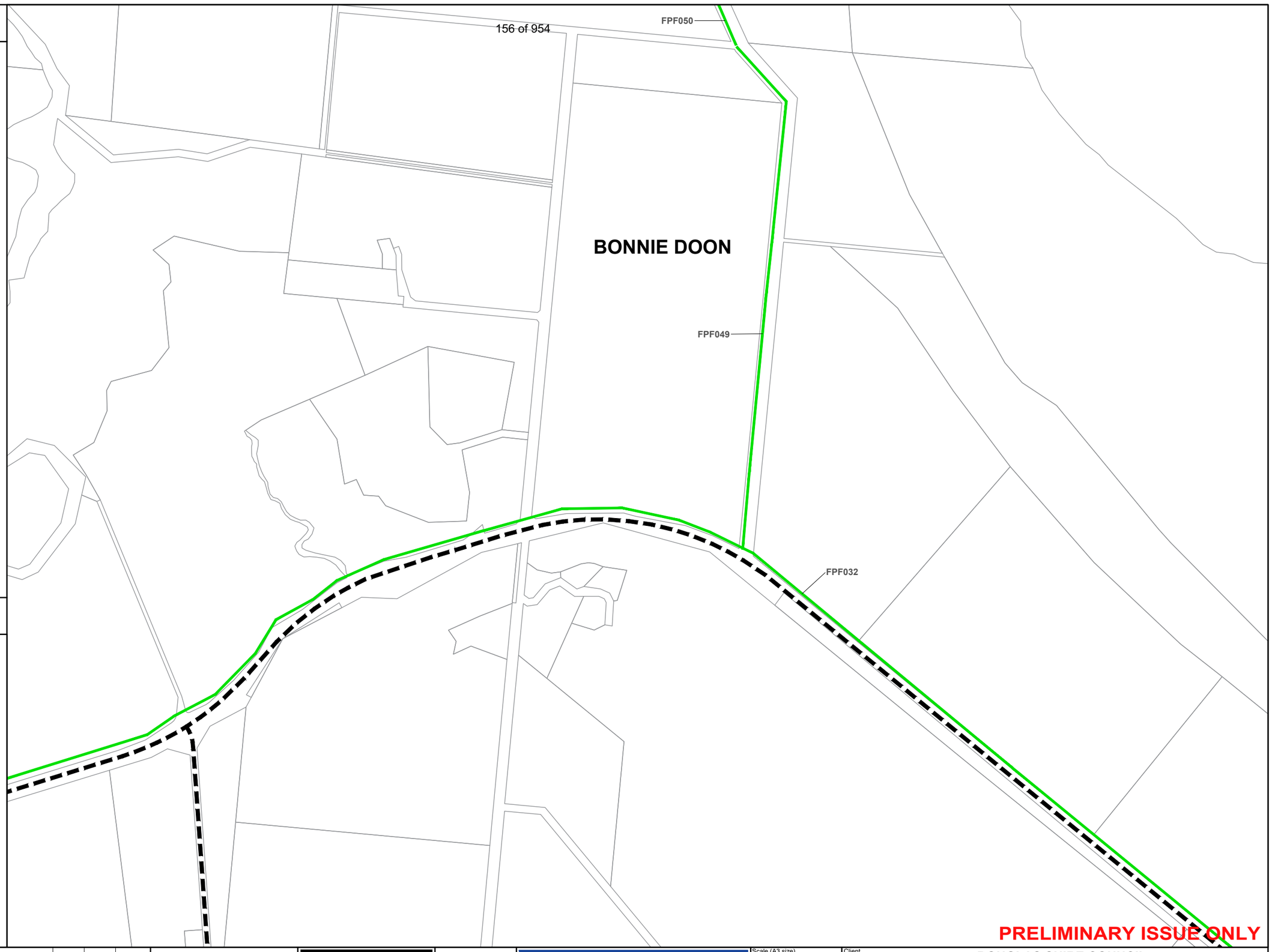

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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 13

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Scale (A3 size): 1:10000

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Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 13

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-1##	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

- FOOTPATH EXISTING
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- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

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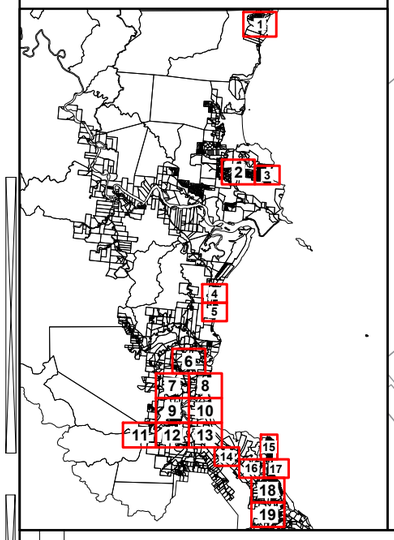
KEY MAP



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Revisions					
No.	Description	Reviewed	Approved	Date
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GRID: 14

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Scale (A3 size): 1:7500

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Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-1##	A

Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 14

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

- FOOTPATH EXISTING
- FOOTPATH FUTURE
- EXISTING PATHS INLINE WITH TRUNK ROADS INFRASTRUCTURE

EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

- SCR ARTERIAL AND SUB ARTERIAL ROADS
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

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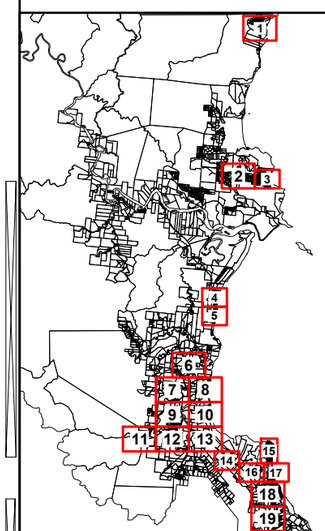
KEY MAP



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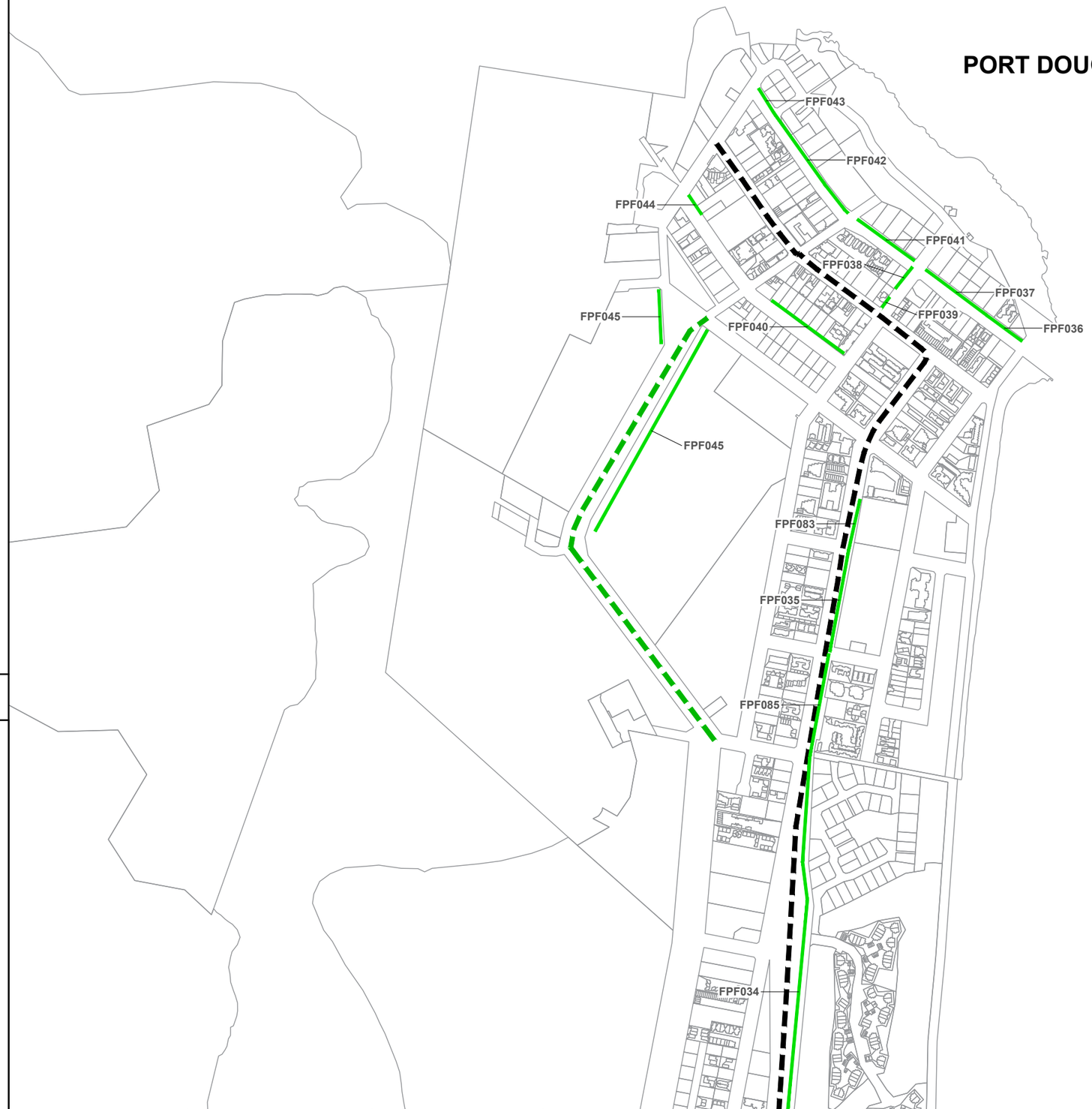

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FPF

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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 15

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Scale (A3 size)	Client	
1:10000	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP	
	Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 15	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-1##	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

- FOOTPATH EXISTING
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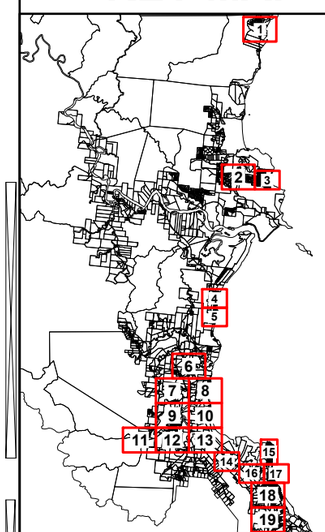
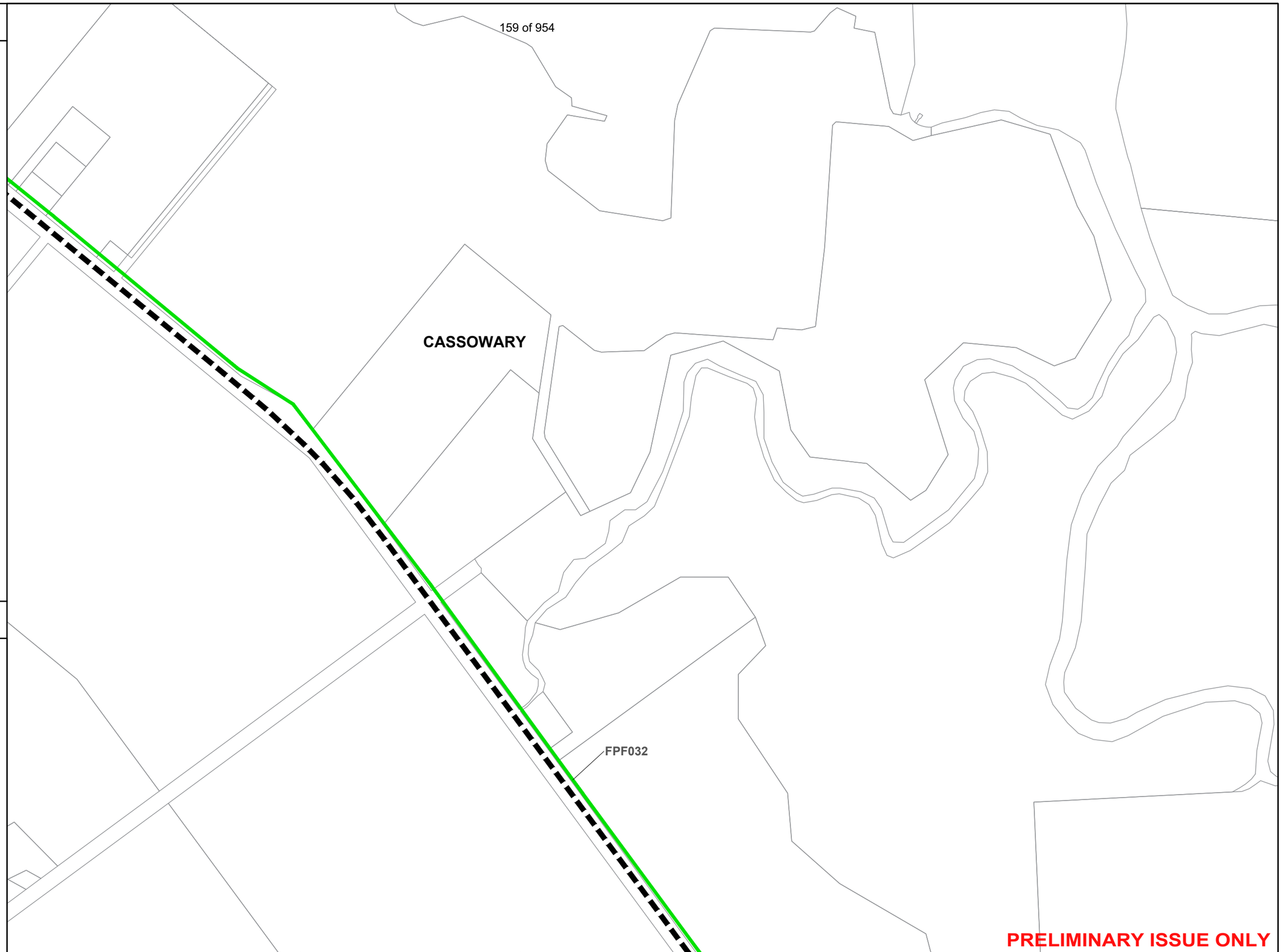
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP





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Revisions					
A	ISSUED FOR REVIEW				
No.	Description	Reviewed	Approved	Date	

GRID: 16

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Scale (A3 size)	Client	
1:7500	DOUGLAS SHIRE COUNCIL	
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	Title	TRUNK FOOTPATH INFRASTRUCTURE - GRID 16

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-1##	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

- FOOTPATH EXISTING
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EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

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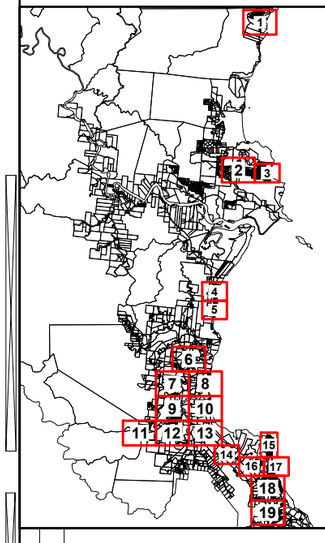
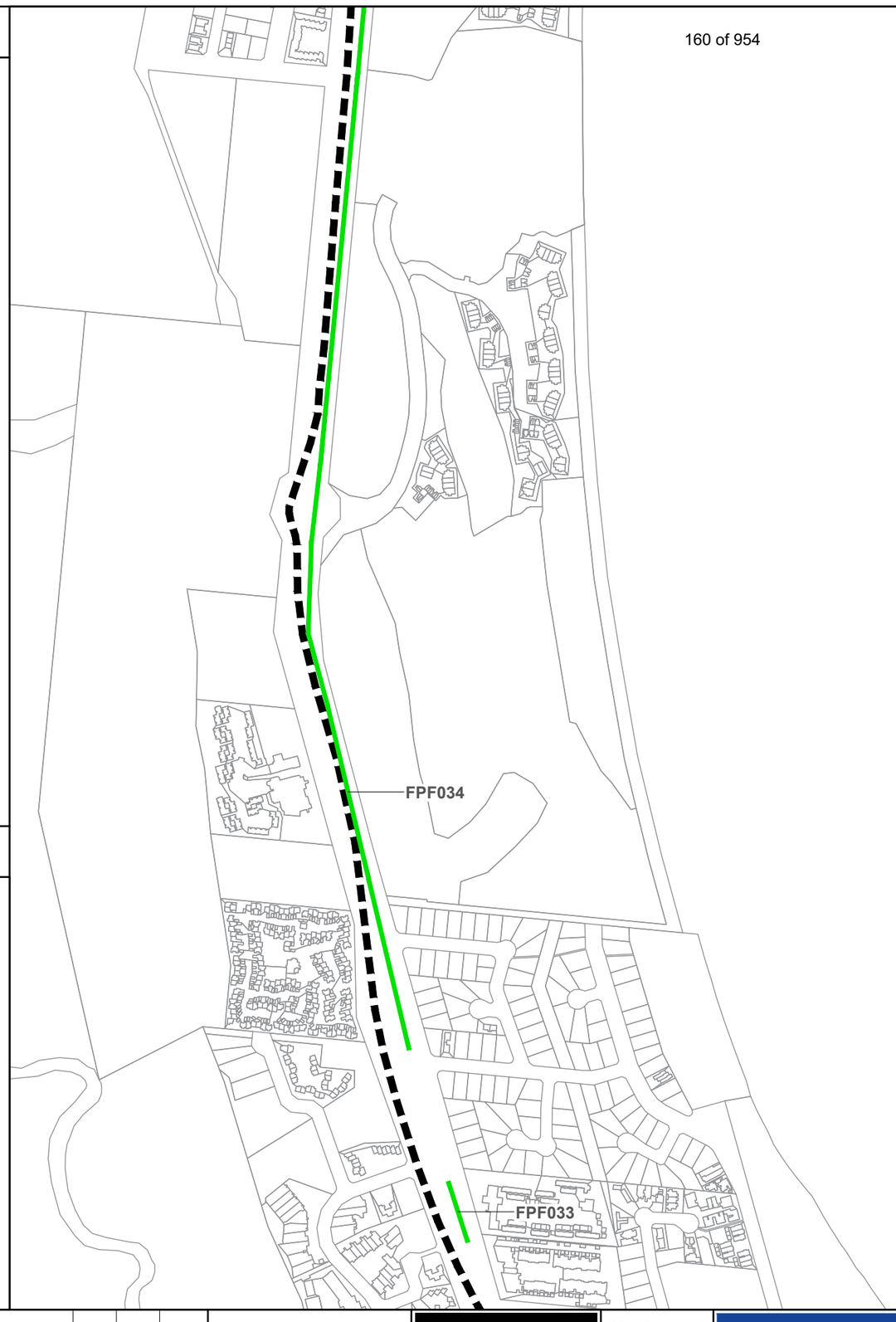
- EXISTING LOCAL TRUNK ROADS INFRASTRUCTURE
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP





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Revisions					
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A	ISSUED FOR REVIEW			

GRID: 17

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Scale (A3 size)	1:7500
	Drawing is not to be used for construction unless approved.
Client	DOUGLAS SHIRE COUNCIL
Project	1100 DOUGLAS SHIRE COUNCIL LGIP
Title	TRUNK FOOTPATH INFRASTRUCTURE - GRID 17

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-1##	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

- FOOTPATH EXISTING
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EXISTING TRANSPORT (ROADS) TRUNK INFRASTRUCTURE

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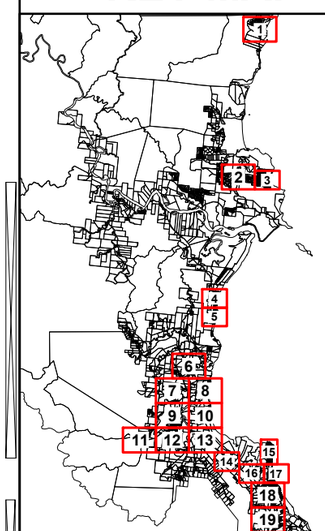
N

KEY MAP



PORT DOUGLAS

FPF032
FPF031
FPF082
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FPF004

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Revisions					
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A	ISSUED FOR REVIEW				

GRID: 18

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Scale (A3 size)	Client
1:10000	DOUGLAS SHIRE COUNCIL
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	Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 18

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-1##	A

LEGEND

EXISTING FOOTPATH TRUNK INFRASTRUCTURE

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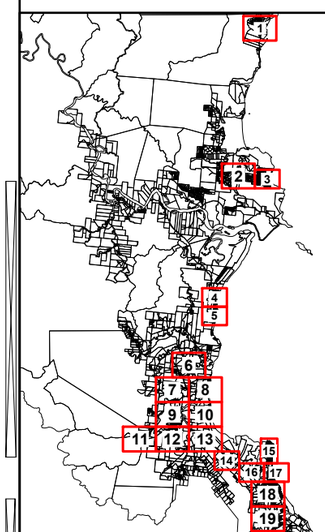
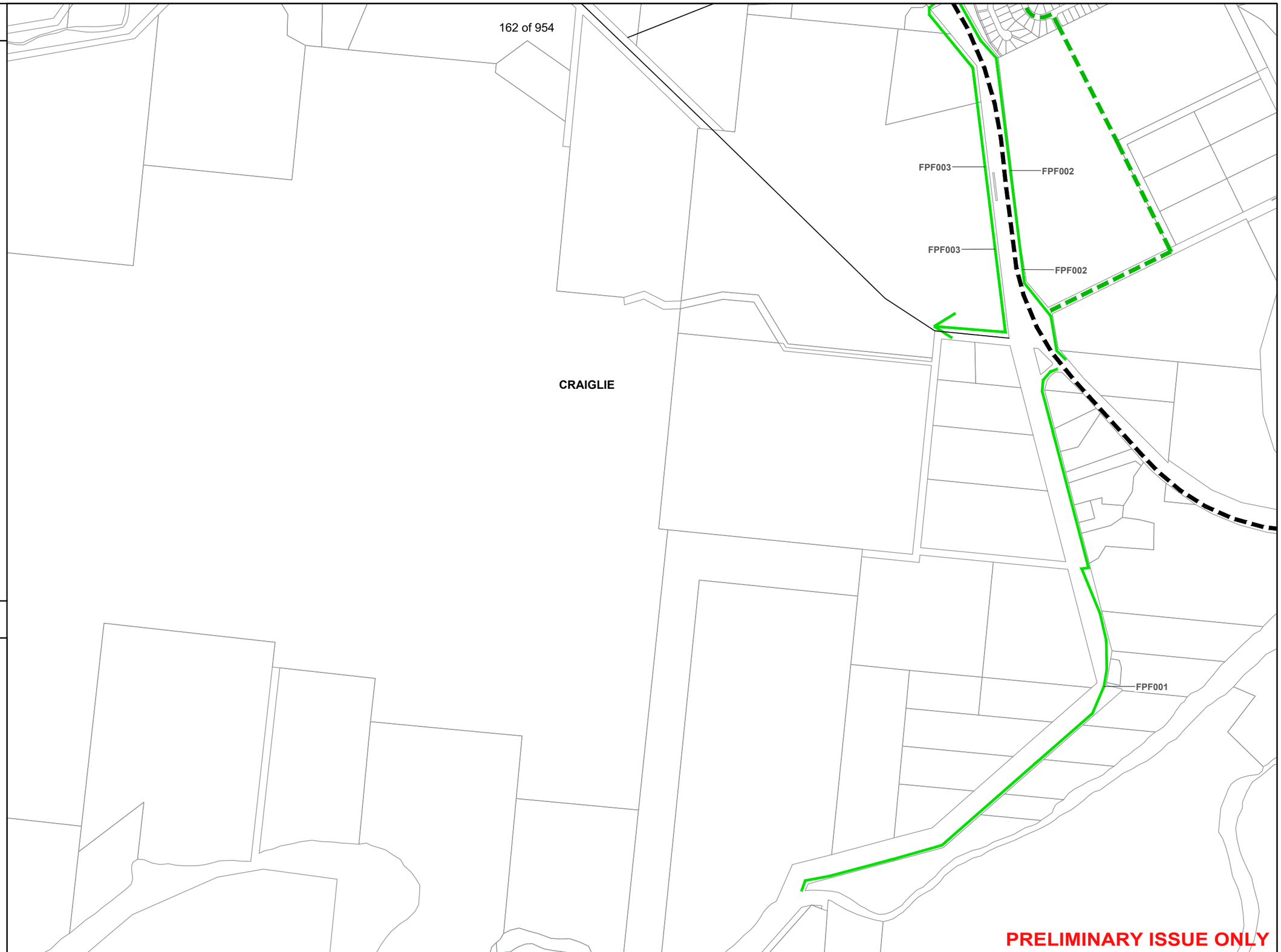
- FUTURE LOCAL TRUNK ROADS INFRASTRUCTURE

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 19

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Scale (A3 size)	Client
1:10000	DOUGLAS SHIRE COUNCIL
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	Title: TRUNK FOOTPATH INFRASTRUCTURE - GRID 19

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		16/08/17	1100-1##	A

DOUGLAS SHIRE COUNCIL

Trinity Engineering and Consulting

LOCAL GOVERNMENT INFRASTRUCTURE PLANS (PARKS AND RESERVES TRUNK INFRASTRUCTURE)

for

DOUGLAS SHIRE COUNCIL

SCHEDULE OF PROJECT DRAWINGS

PRELIMINARY ISSUE ONLY

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

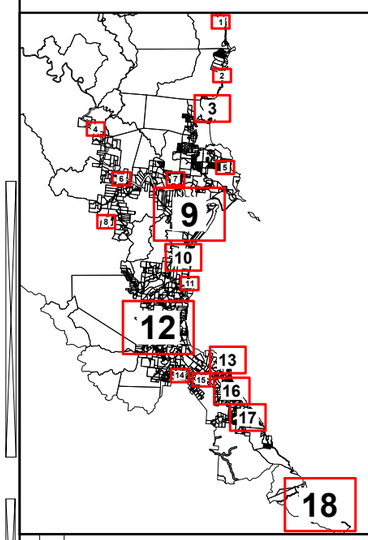
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

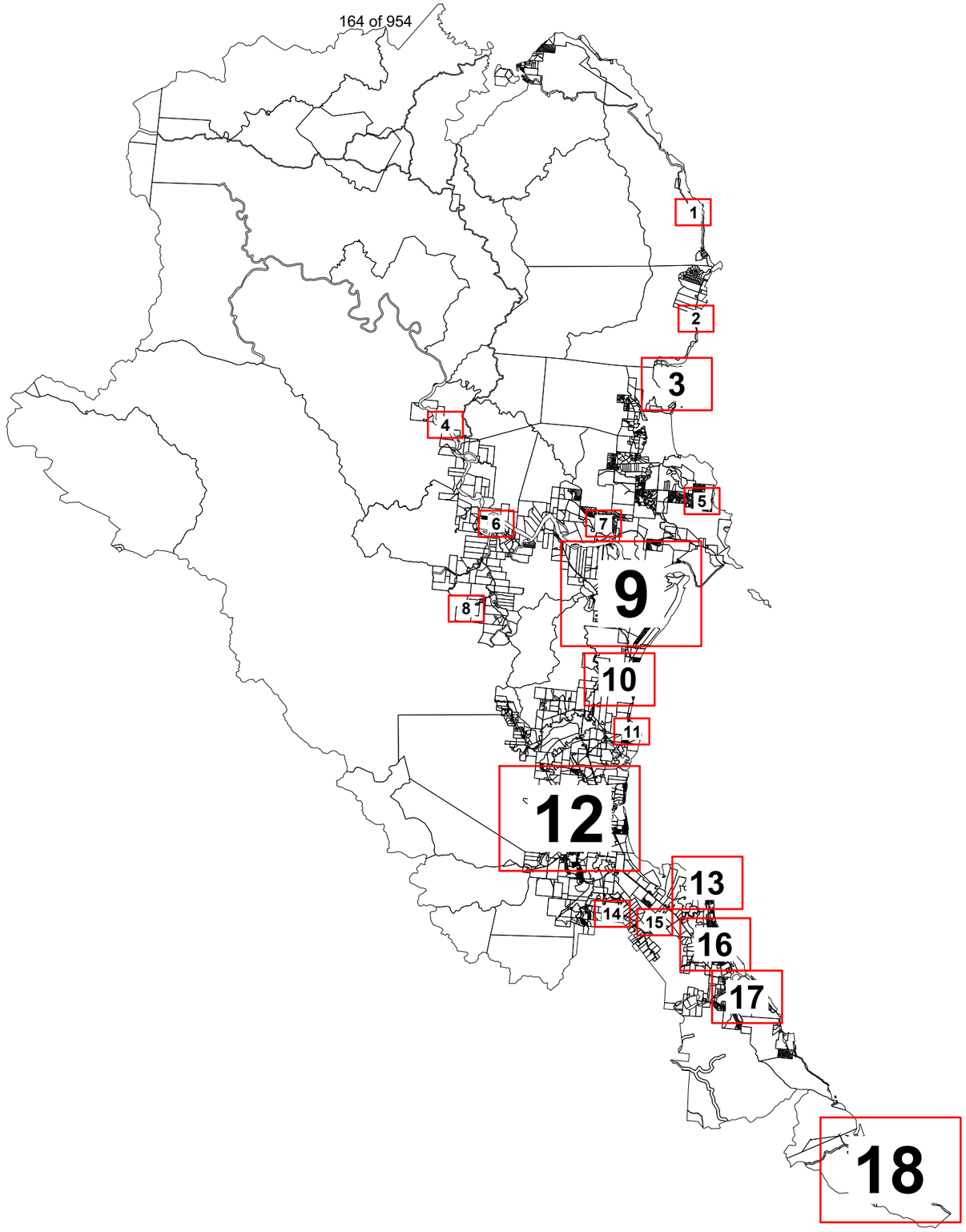
STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP





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Scale (A3 size)	1:360000
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Client	DOUGLAS SHIRE COUNCIL
Project	1100 DOUGLAS SHIRE COUNCIL LGIP
Title	EXISTING PARK TRUNK INFRASTRUCTURE KEY MAP

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		31/07/17	1100-101	A

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

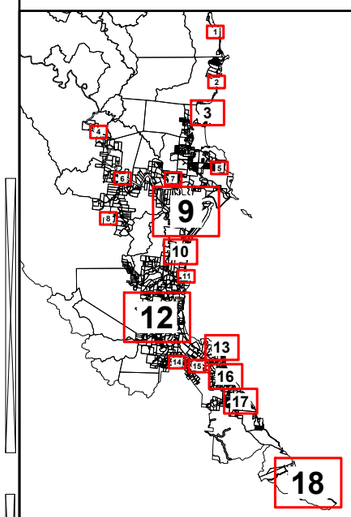
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

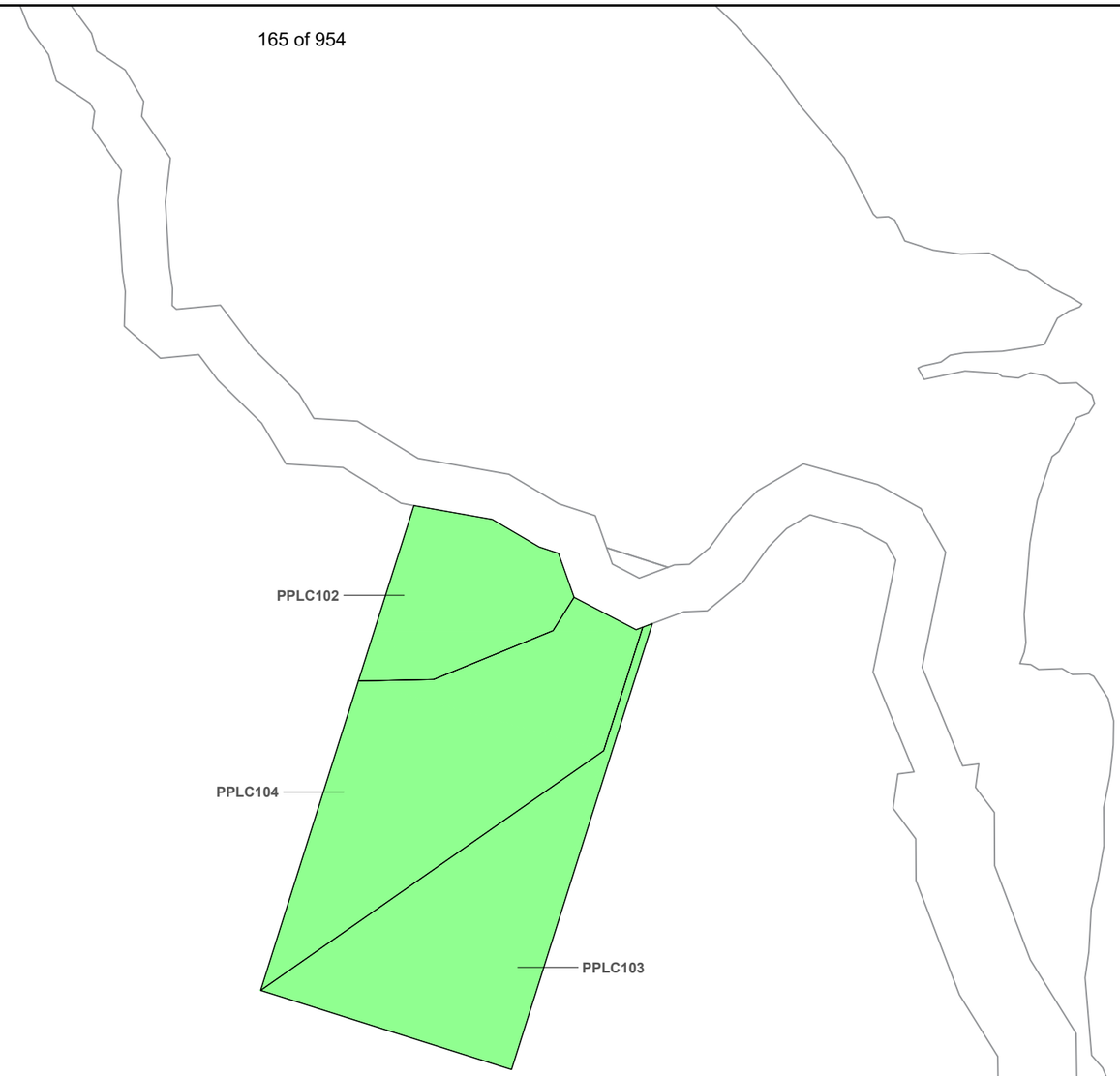
STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date	
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GRID: 1

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Scale (A3 size)	1:7500
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Client	DOUGLAS SHIRE COUNCIL
Project	1100 DOUGLAS SHIRE COUNCIL LGIP
Title	EXISTING PARK TRUNK INFRASTRUCTURE - GRID 1

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		31/07/17	1100-102	A

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

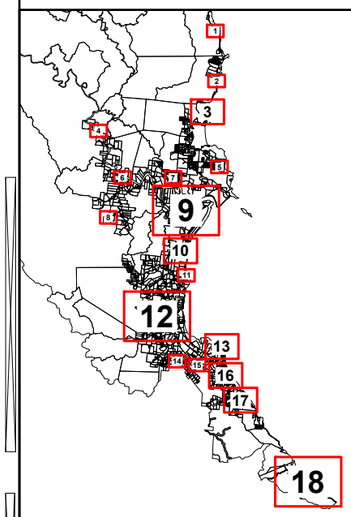
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

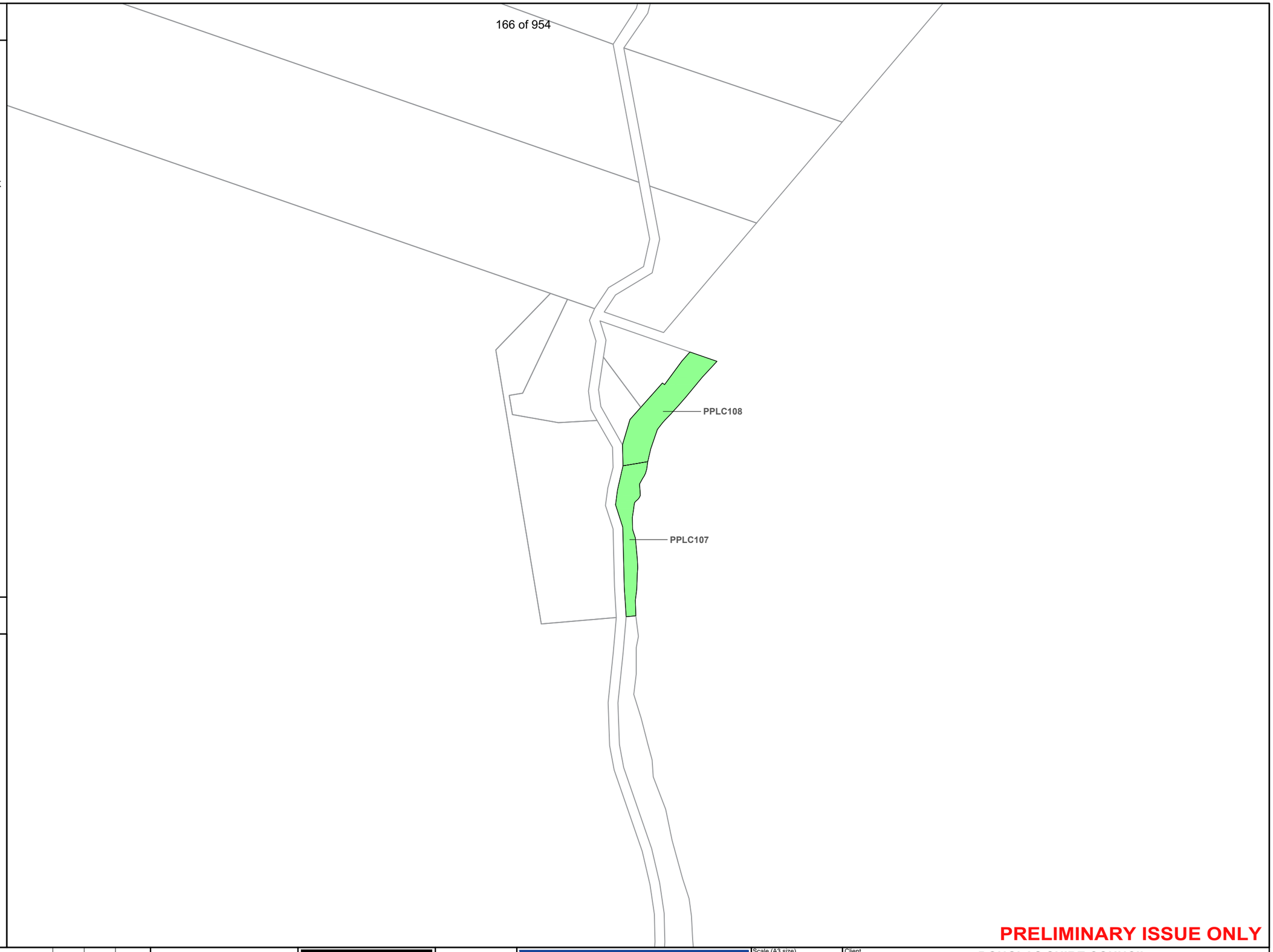
STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP





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No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

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Scale (A3 size)	Client
1:7500	DOUGLAS SHIRE COUNCIL
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	Title: EXISTING PARK TRUNK INFRASTRUCTURE - GRID 2

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		31/07/17	1100-103	A

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

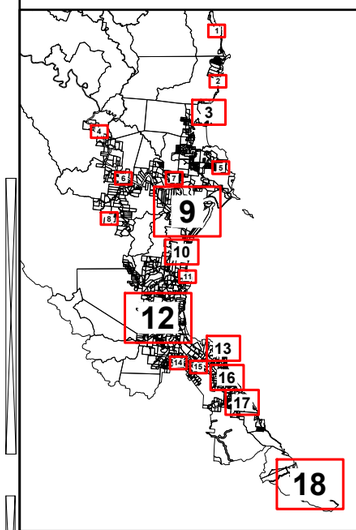
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

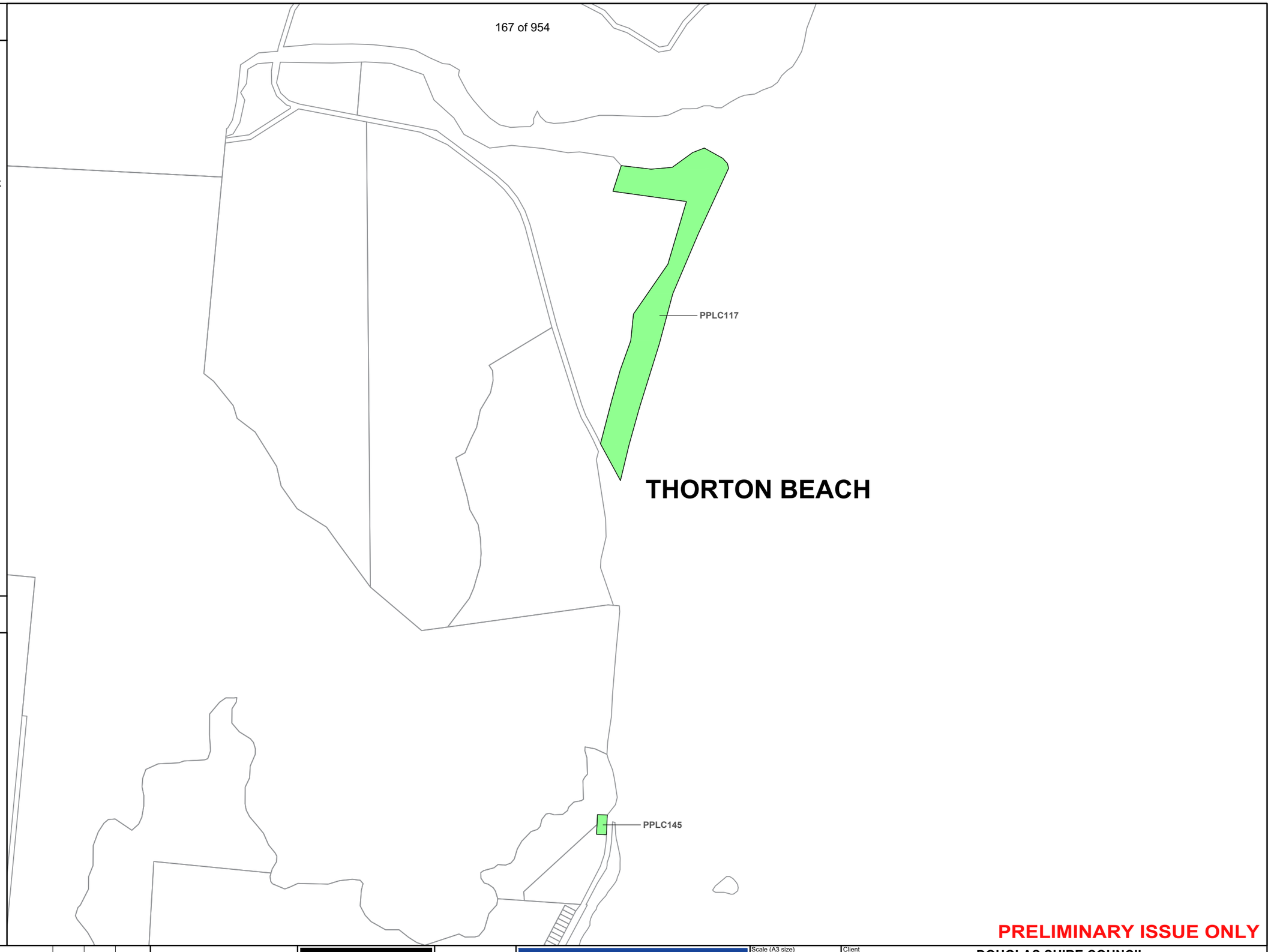
STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP





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A	ISSUED FOR REVIEW				

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Scale (A3 size)	Client
1:15000	DOUGLAS SHIRE COUNCIL
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	Title: EXISTING PARK TRUNK INFRASTRUCTURE - GRID 3

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		31/07/17	1100-104	A

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

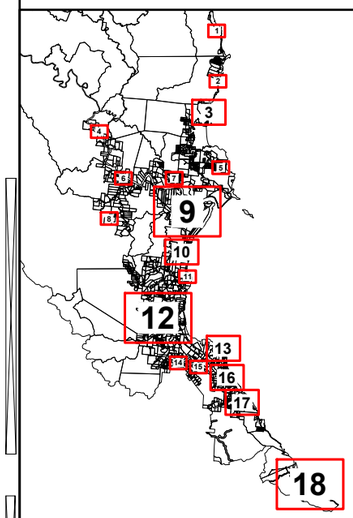
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

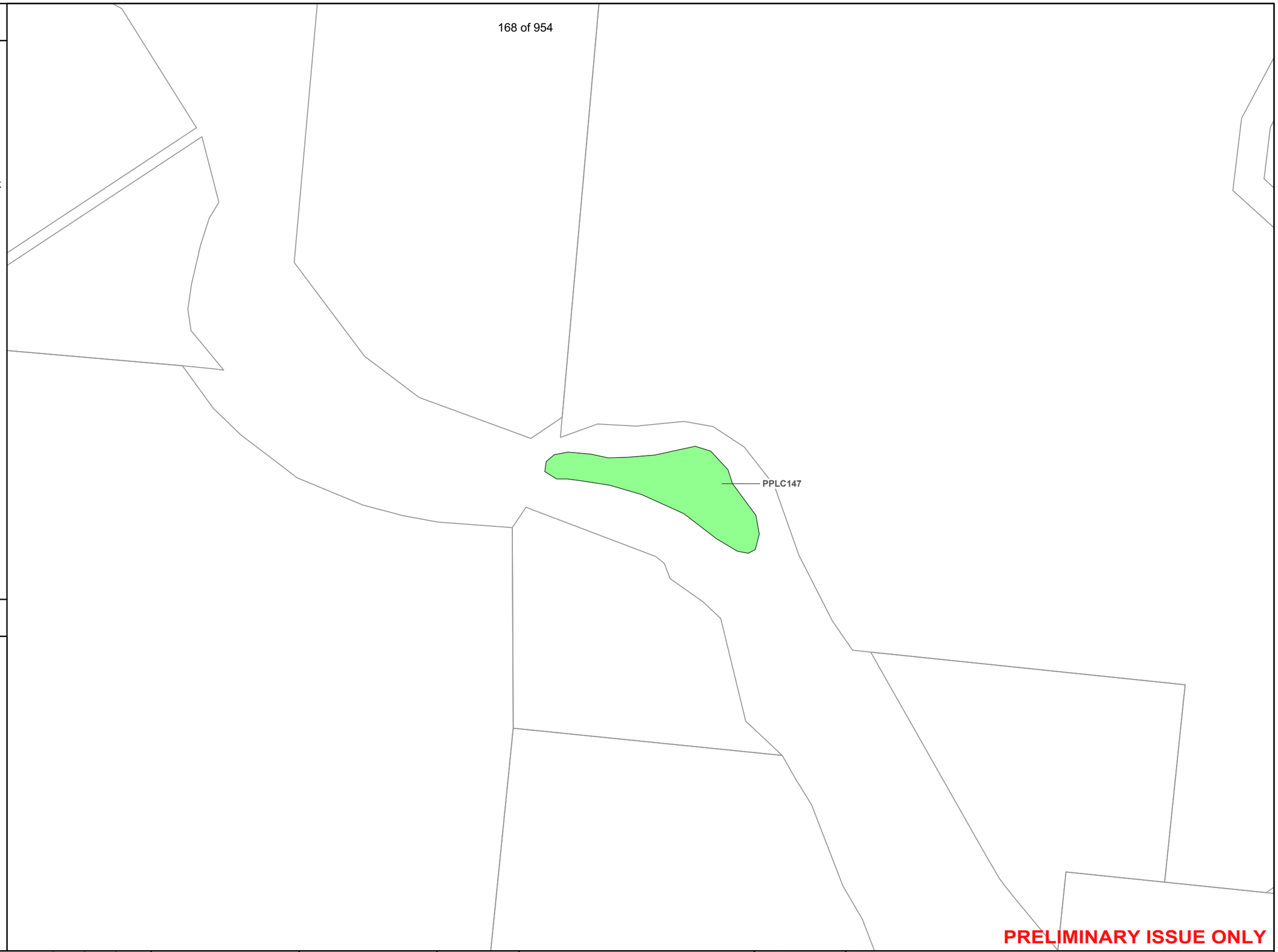
STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP





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1:7500	IM	RR	RR	RR	R RANKINE		31/07/17	1100-105	A

Drawing is not to be used for construction unless approved.

Client: DOUGLAS SHIRE COUNCIL
Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
Title: EXISTING PARK TRUNK INFRASTRUCTURE - GRID 4

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

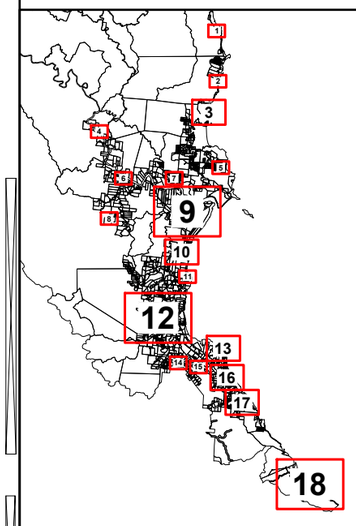
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP



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Revisions					
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GRID: 5

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Scale (A3 size): 1:7500

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Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		31/07/17	1100-106	A

Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: EXISTING PARK TRUNK INFRASTRUCTURE - GRID 5

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

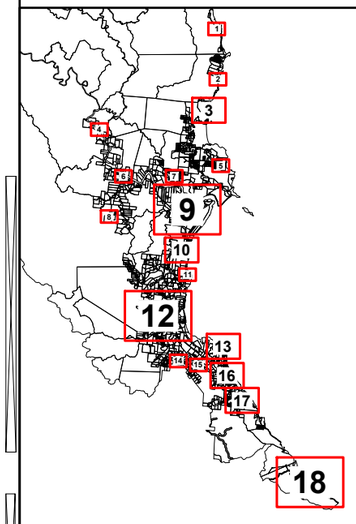
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

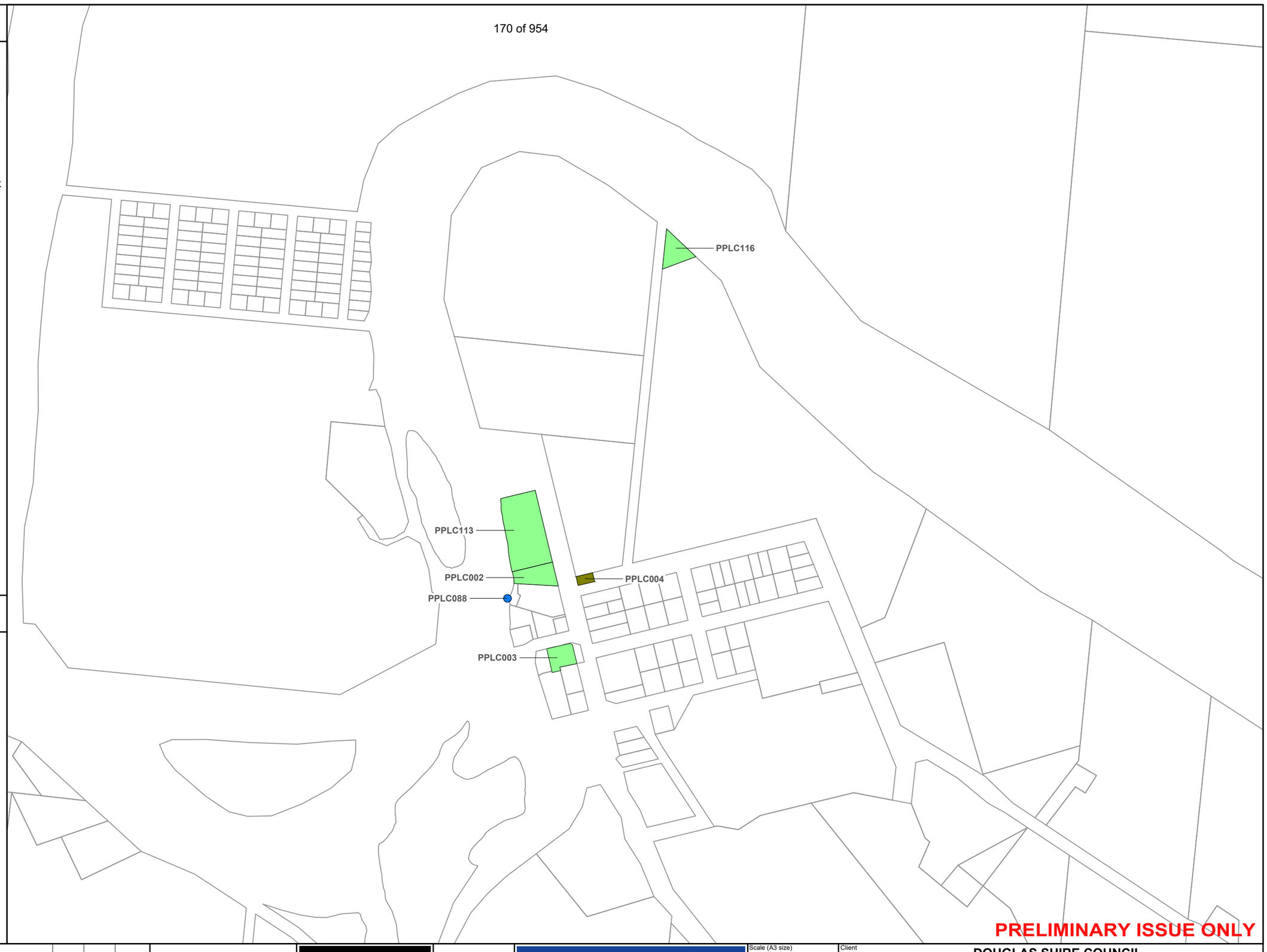
STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP





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No.	Description	Reviewed	Approved	Date
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1:7500	IM	RR	RR	RR	R RANKINE		31/07/17	1100-107	A

Drawing is not to be used for construction unless approved.

Client: DOUGLAS SHIRE COUNCIL
Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
Title: EXISTING PARK TRUNK INFRASTRUCTURE - GRID 6

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

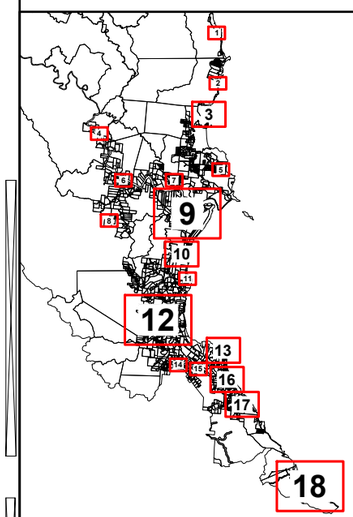
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

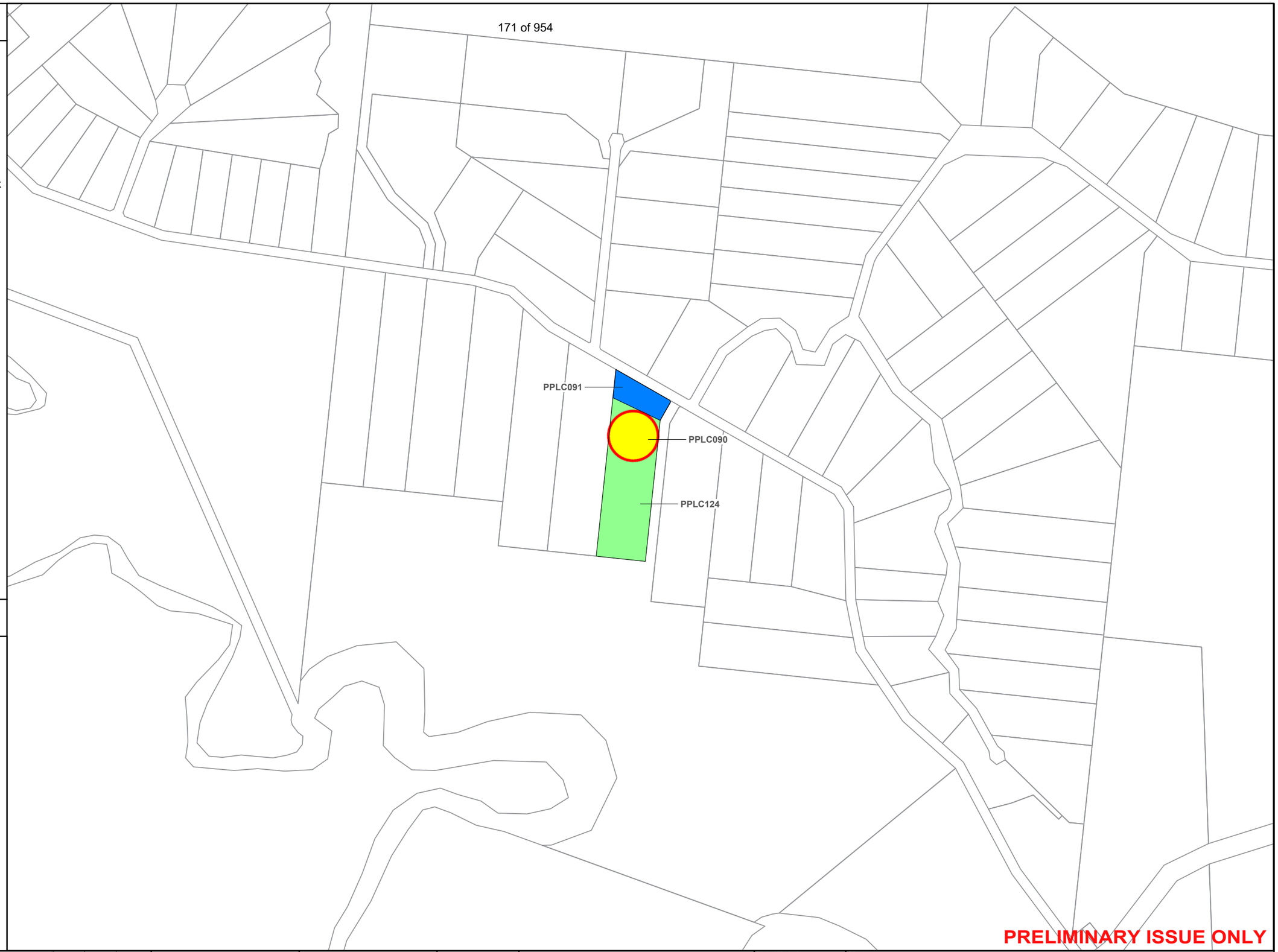
STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP





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1:7500	IM	RR	RR	RR	R RANKINE		31/07/17	1100-108	A

Drawing is not to be used for construction unless approved.

Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: EXISTING PARK TRUNK INFRASTRUCTURE - GRID 7

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

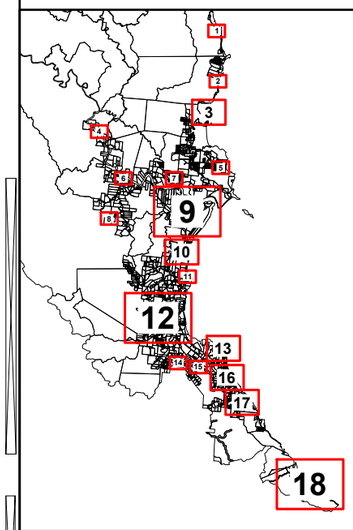
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

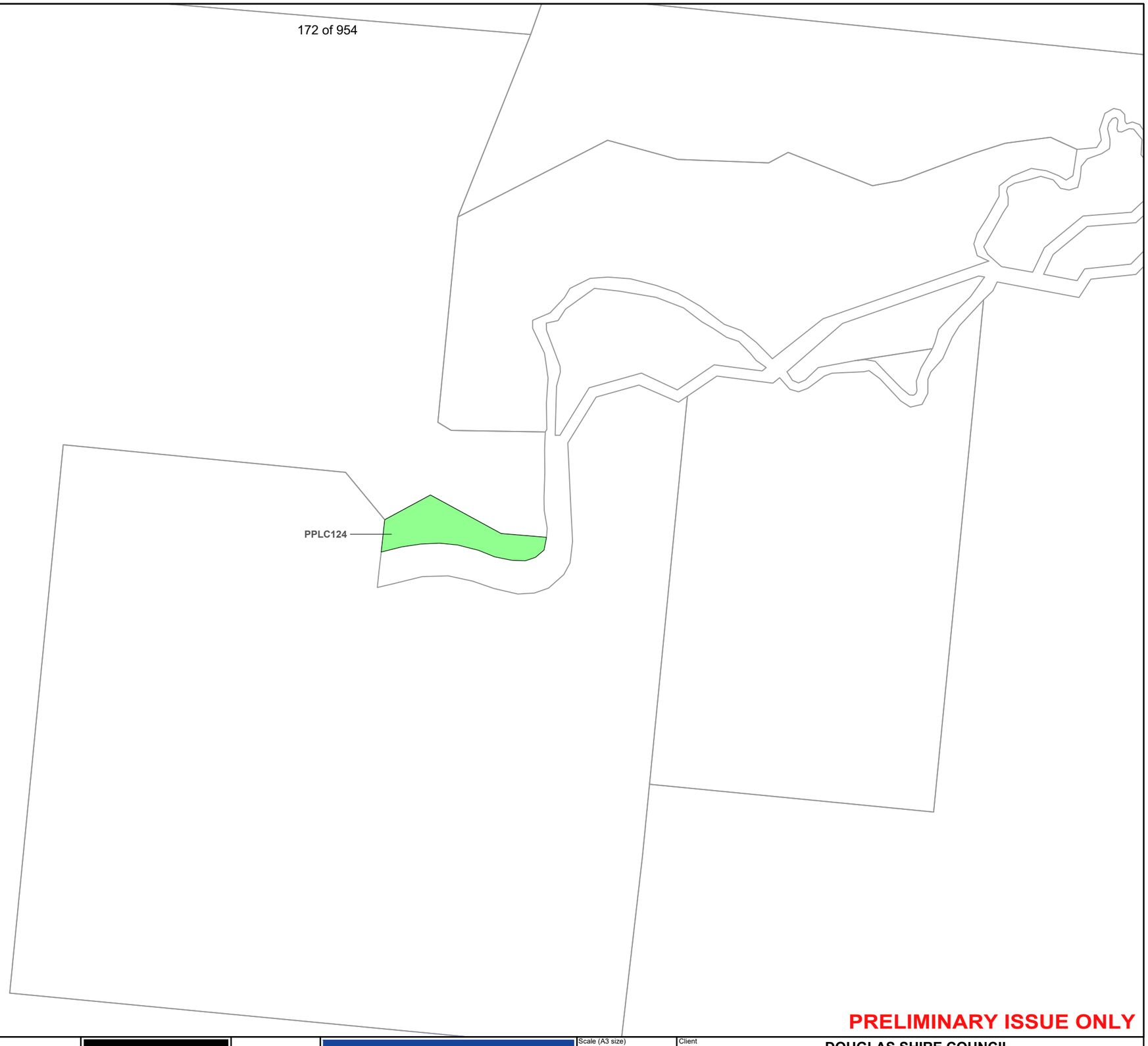
STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP





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No.	Description	Reviewed	Approved	Date
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GRID: 8

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1:7500	Project	1100 DOUGLAS SHIRE COUNCIL LGIP
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Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		31/07/17	1100-109	A

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

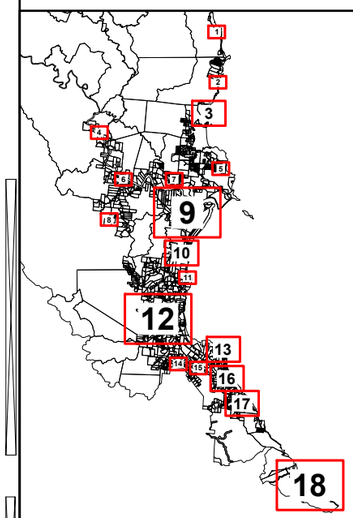
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

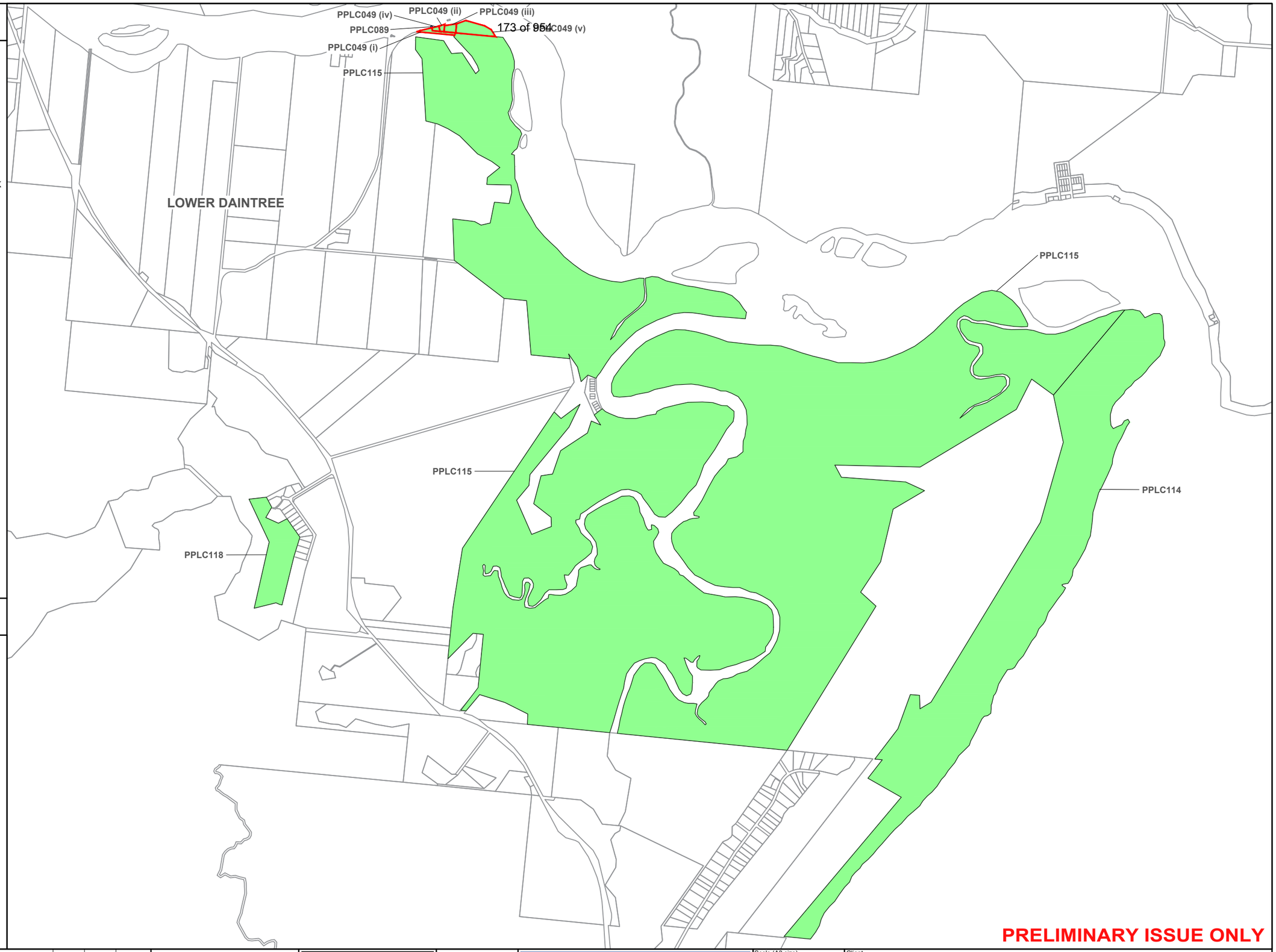
STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP





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GRID: 9

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Scale (A3 size)	Client
1:30000	DOUGLAS SHIRE COUNCIL
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	Title: EXISTING PARK TRUNK INFRASTRUCTURE - GRID 9

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		31/07/17	1100-110	A

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

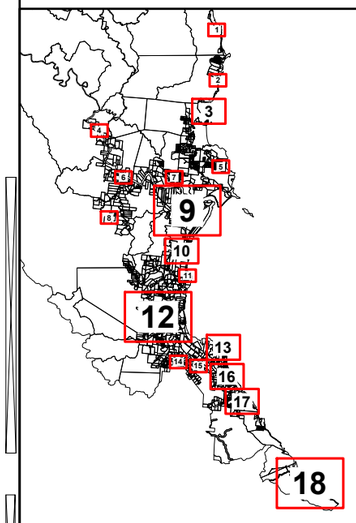
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

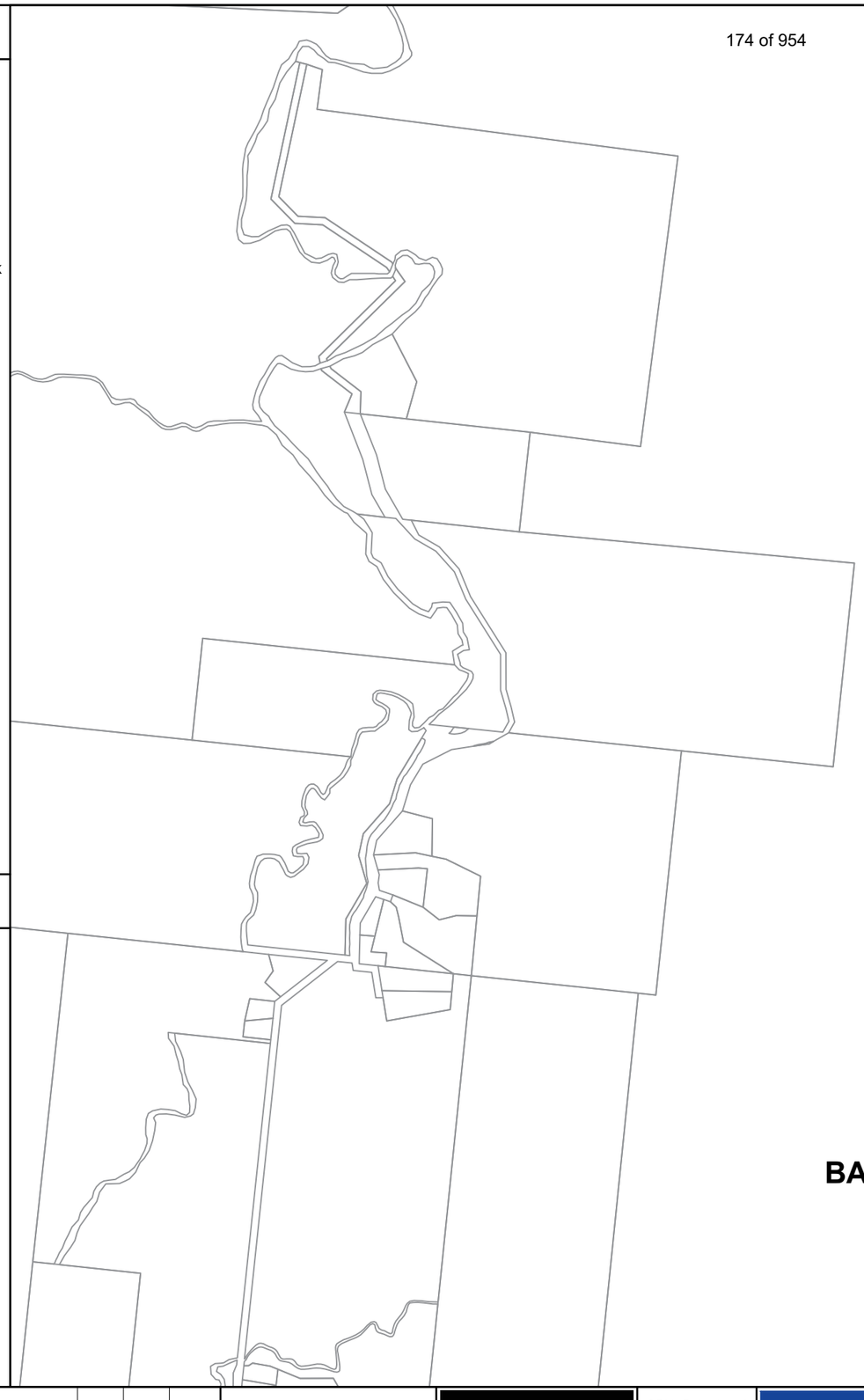
STATUS OF INFRASTRUCTURE

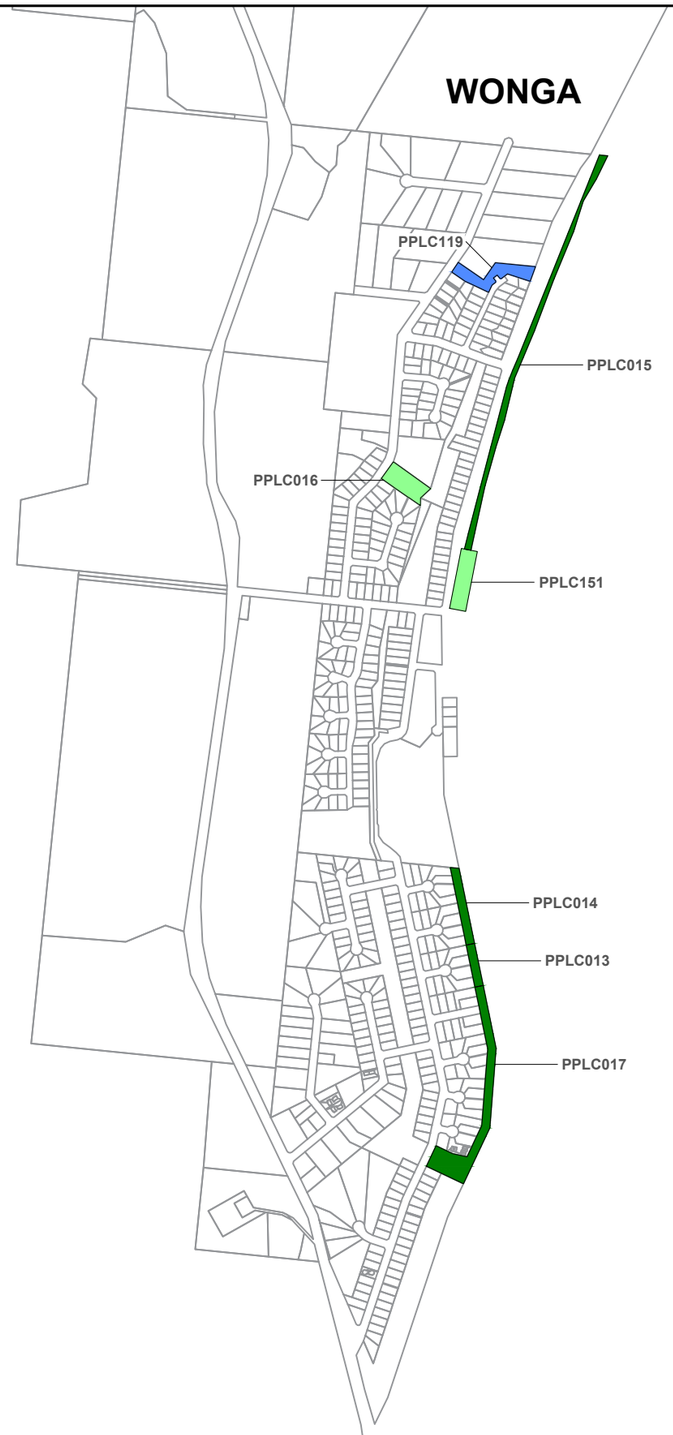
- FUTURE PARK
- PARK UPGRADE

N

KEY MAP







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Scale (A3 size): 1:15000

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Client	DOUGLAS SHIRE COUNCIL
Project	1100 DOUGLAS SHIRE COUNCIL LGIP
Title	EXISTING PARK TRUNK INFRASTRUCTURE - GRID 10

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		31/07/17	1100-111	A

Attachment 5.3.1

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

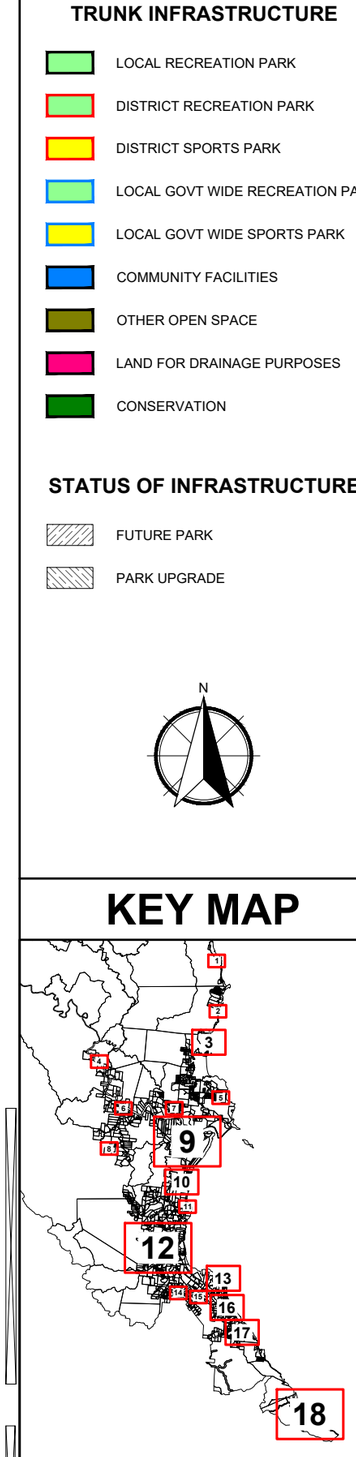
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

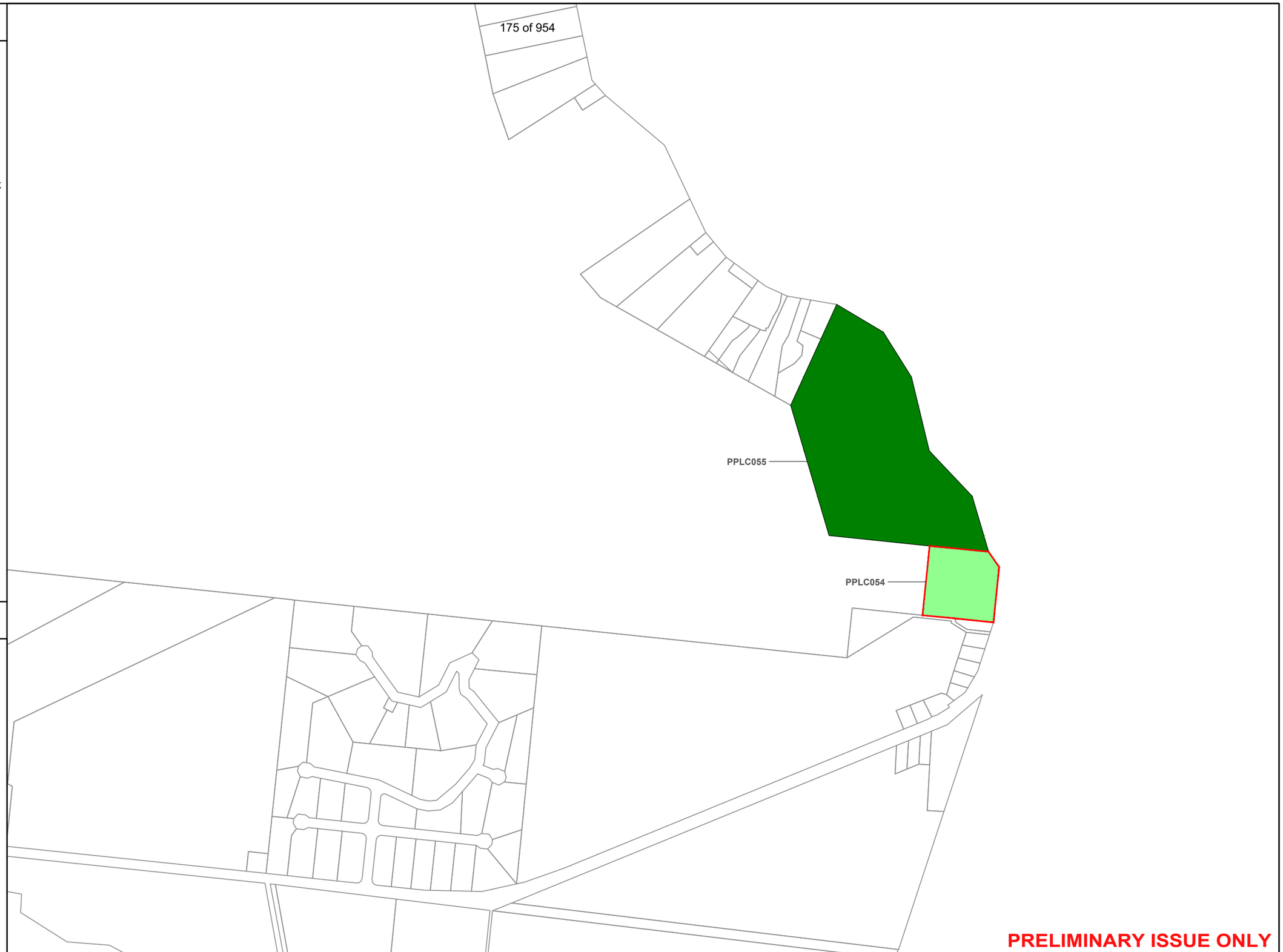
STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP





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A	ISSUED FOR REVIEW				
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GRID: 11

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Scale (A3 size)	Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
1:7500	IM	RR	RR	RR	R RANKINE		31/07/17	1100-112	A

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Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: EXISTING PARK TRUNK INFRASTRUCTURE - GRID 11

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

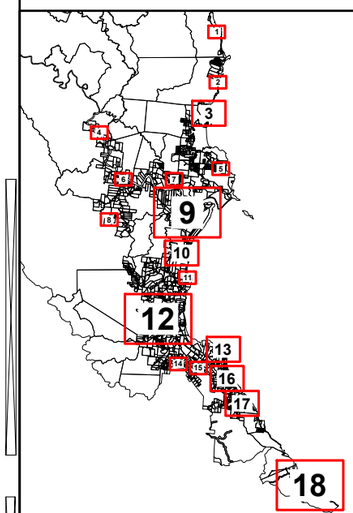
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP



PPLC050
PPLC135
PPLC005
PPLC009
NEWELL
PPLC006
PPLC008
PPLC007
PPLC084
PPLC073
PPLC052
PPLC105
PPLC072
COOYA BEACH
PPLC001
PPLC018
PPLC051
PPLC126
PPLC127
PPLC112
BONNIE DOON
PPLC019
PPLC095
MOSSMAN GORGE
PPLC020
FINLAYVALE
PPLC134
PPLC125
PPLC021
PPLC022
PPLC023

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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 12

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Scale (A3 size)	Client
1:30000	DOUGLAS SHIRE COUNCIL
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	Title: EXISTING PARK TRUNK INFRASTRUCTURE - GRID 12

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		31/07/17	1100-113	A

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

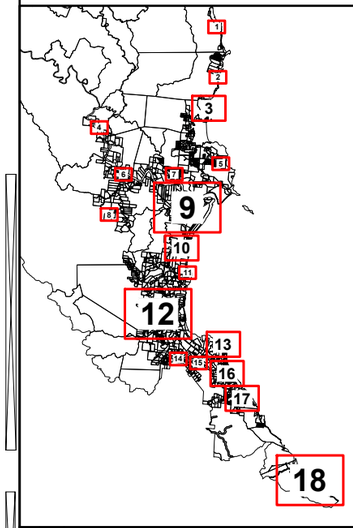
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

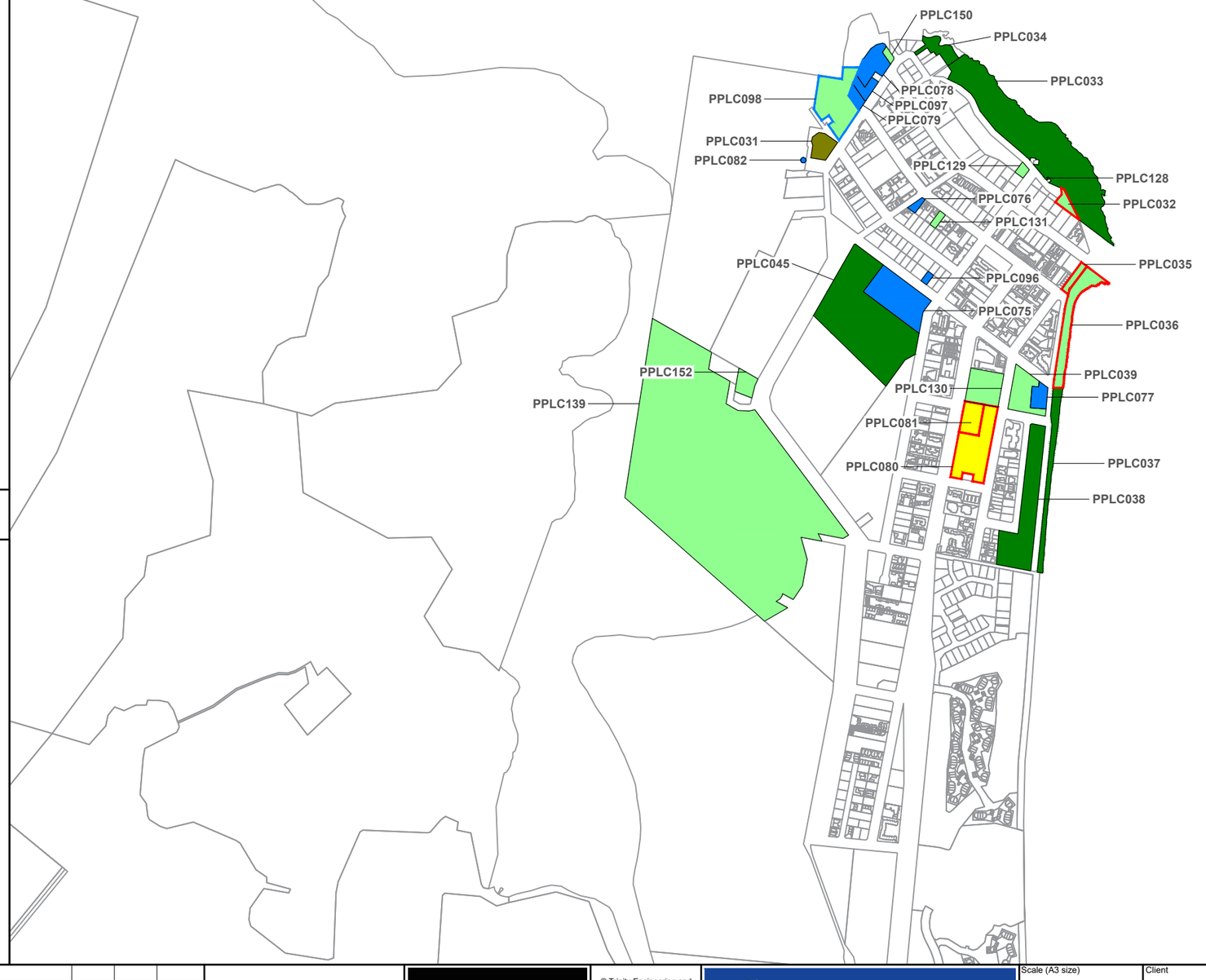
STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP





PORT DOUGLAS

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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 13

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Scale (A3 size)	Client
1:15000	DOUGLAS SHIRE COUNCIL
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	Title: EXISTING PARK TRUNK INFRASTRUCTURE - GRID 13

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		31/07/17	1100-114	A

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

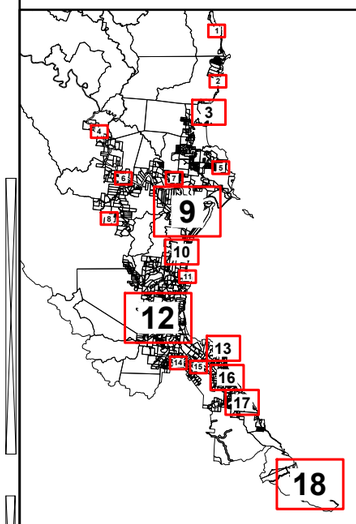
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

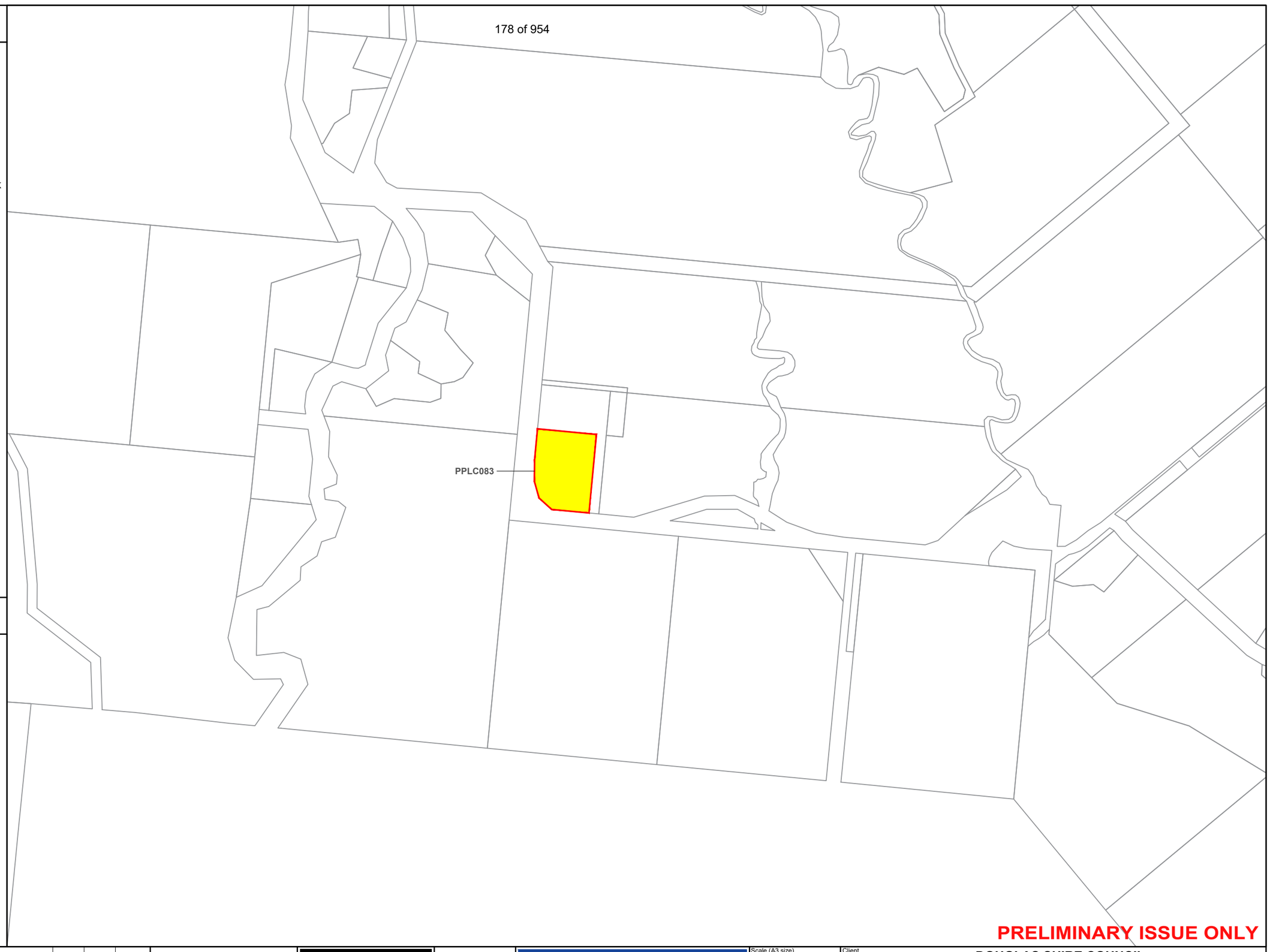
STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 14

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Scale (A3 size)	Client	
1:7500	DOUGLAS SHIRE COUNCIL	
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	Title: EXISTING PARK TRUNK INFRASTRUCTURE - GRID 14	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		31/07/17	1100-115	A

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

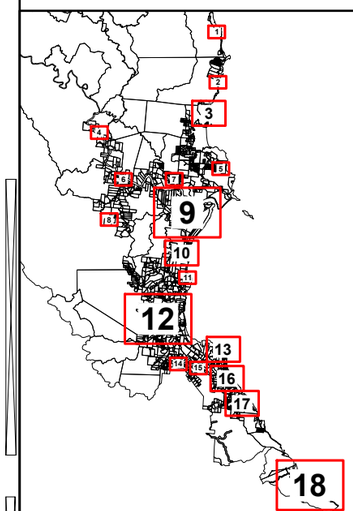
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

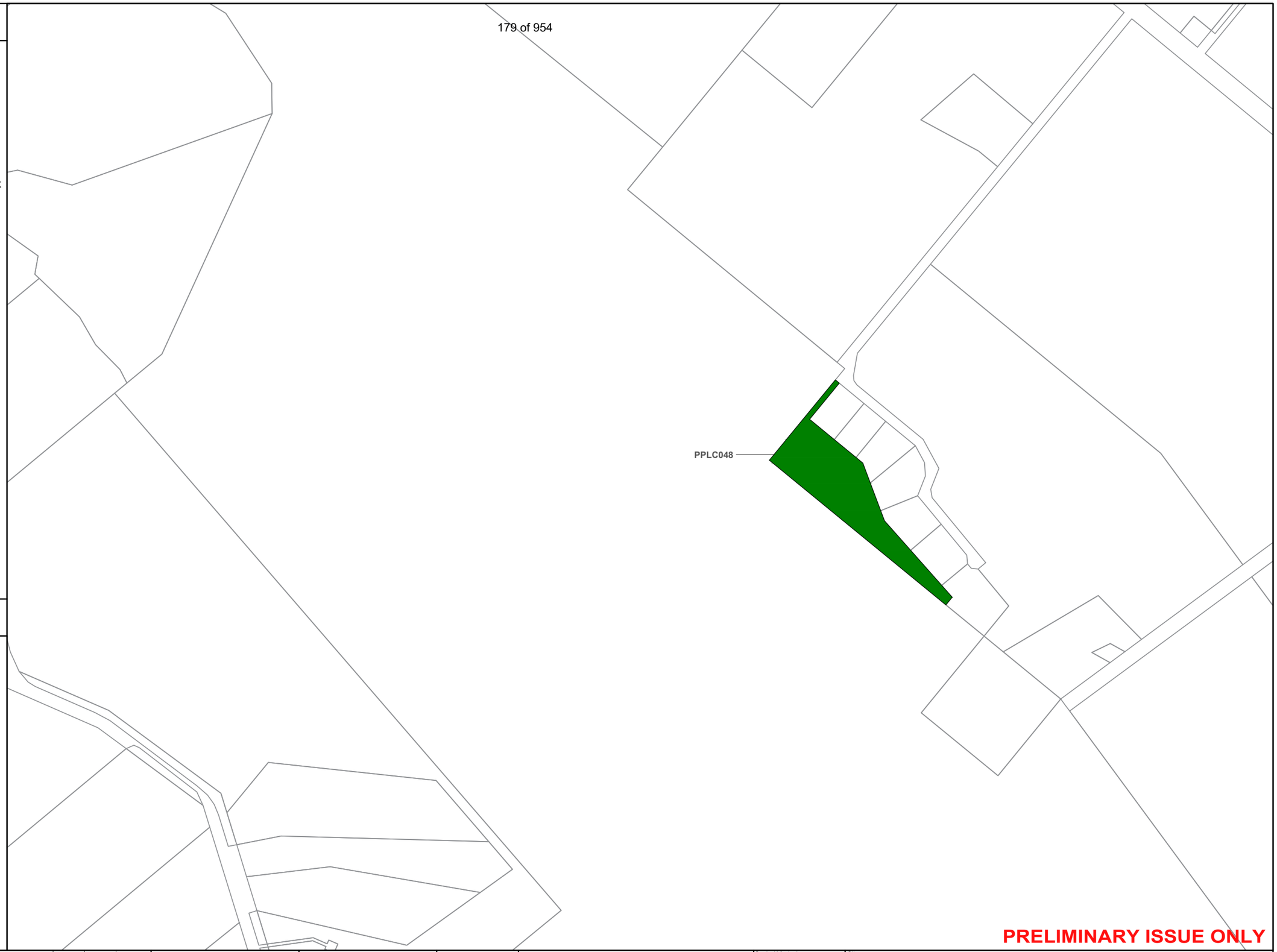
STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP





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Revisions					
A	ISSUED FOR REVIEW				
No.	Description	Reviewed	Approved	Date	

GRID: 15

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Scale (A3 size): 1:7500

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Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: EXISTING PARK TRUNK INFRASTRUCTURE - GRID 15

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		31/07/17	1100-116	A

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

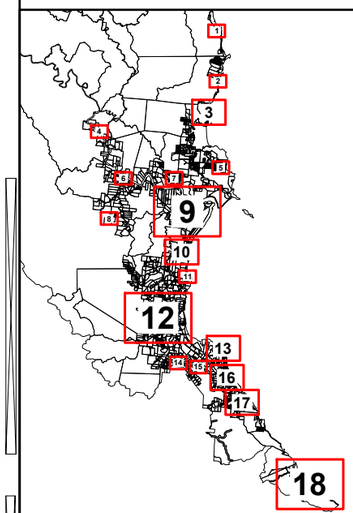
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP



CRAIGLIE

PORT DOUGLAS

PPLC030 (ii)
PPLC030 (i)
PPLC143
PPLC040
PPLC042
PPLC141
PPLC041
PPLC043
PPLC142
PPLC123
PPLC100
PPLC110
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PPLC099
PPLC046
PPLC029
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PPLC024 (i)
PPLC146
PPLC026 (i)
PPLC026 (ii)
PPLC101
PPLC026 (iii)
PPLC140
PPLC106
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PPLC133
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PPLC120
PPLC121
PPLC025 (i)
PPLC025 (ii)

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Revisions					
No.	Description		Reviewed	Approved	Date
A	ISSUED FOR REVIEW				

GRID: 16

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Scale (A3 size)	Client	
1:15000	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP	
	Title: EXISTING PARK TRUNK INFRASTRUCTURE - GRID 16	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		31/07/17	1100-117	A

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

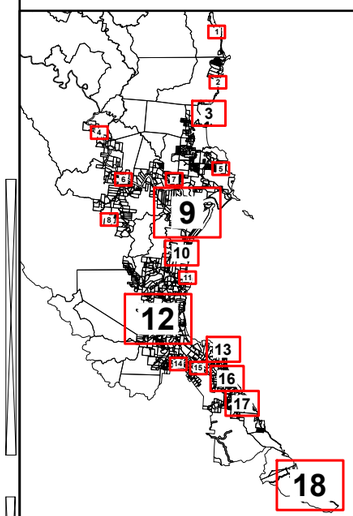
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

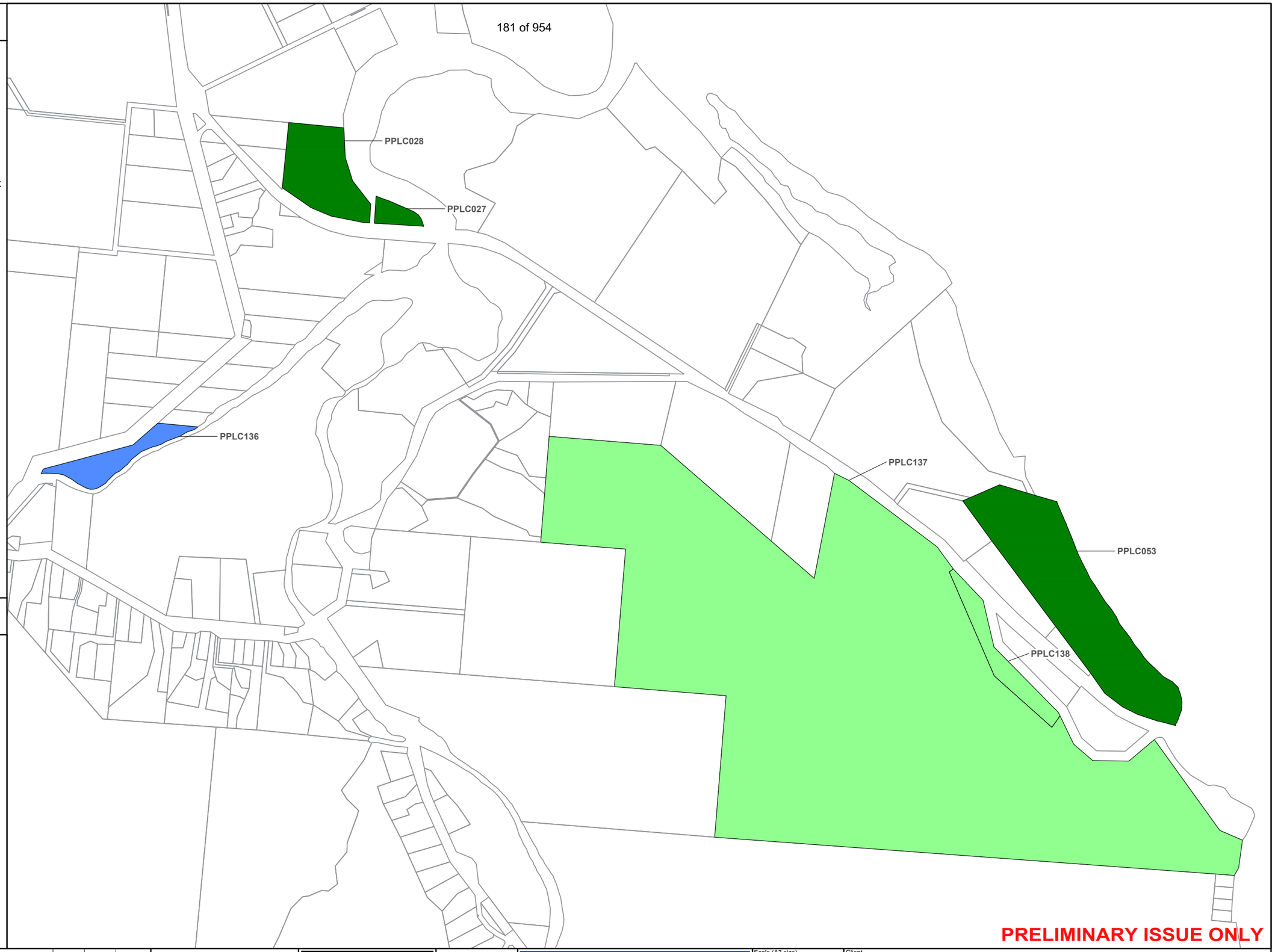
STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 17

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Scale (A3 size)	Client	DOUGLAS SHIRE COUNCIL
1:15000	Project	1100 DOUGLAS SHIRE COUNCIL LGIP
Drawing is not to be used for construction unless approved.	Title	EXISTING PARK TRUNK INFRASTRUCTURE - GRID 17

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		31/07/17	1100-118	A

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

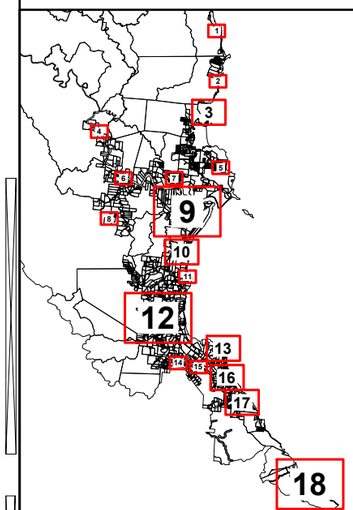
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

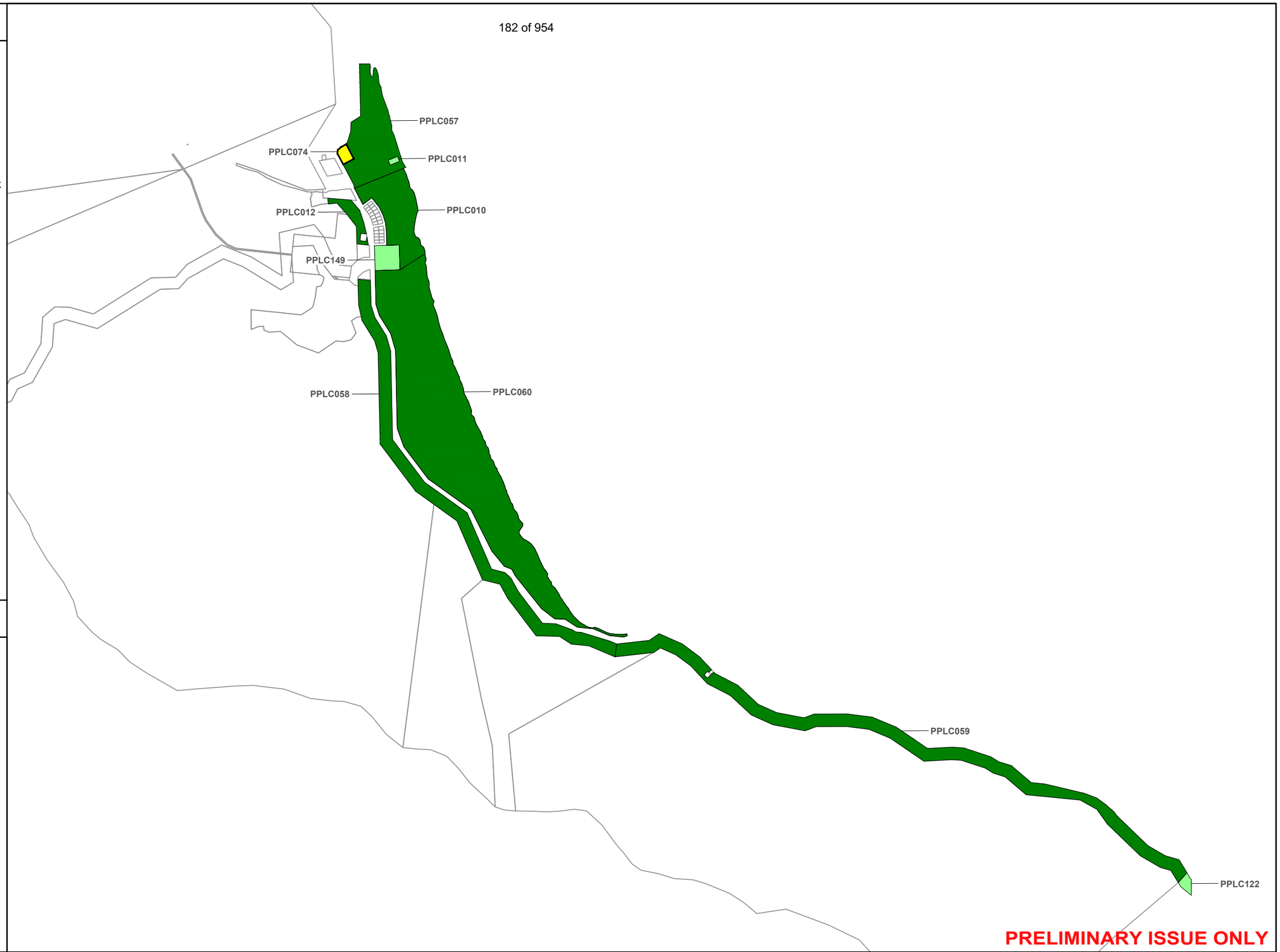
STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP





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Revisions					
A	ISSUED FOR REVIEW				
No.	Description	Reviewed	Approved	Date	

GRID: 18

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Scale (A3 size): 1:30000

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Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: EXISTING PARK TRUNK INFRASTRUCTURE - GRID 18

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		31/07/17	1100-119	A

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

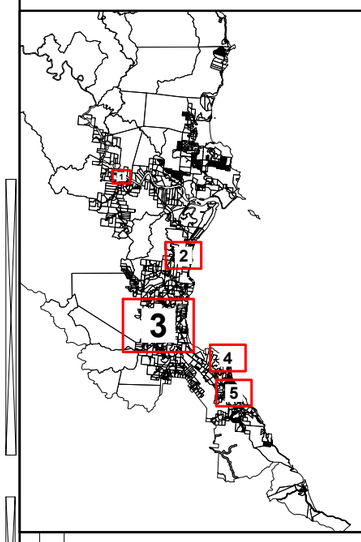
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

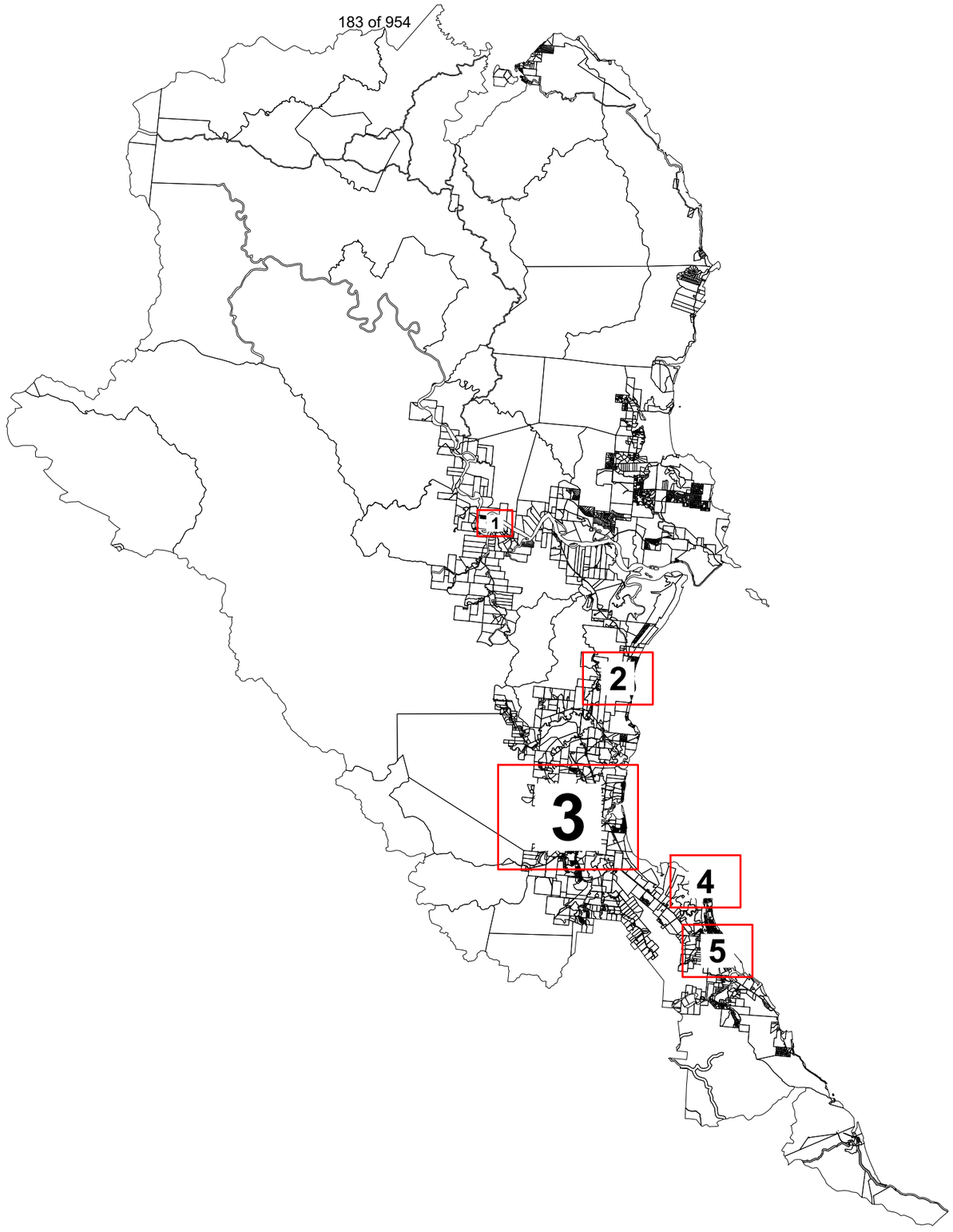
STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP





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No.	Description	Reviewed	Approved	Date
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Scale (A3 size)	Client
1:360000	DOUGLAS SHIRE COUNCIL
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	Title: FUTURE PARK TRUNK INFRASTRUCTURE KEY MAP

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		31/07/17	1100-120	A

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

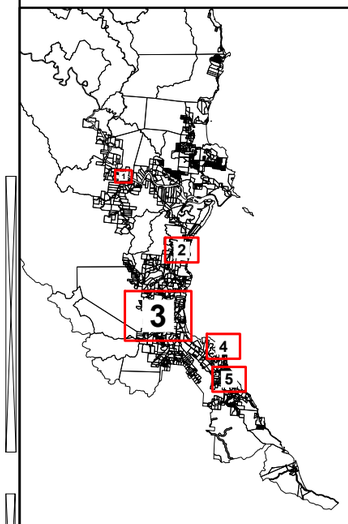
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

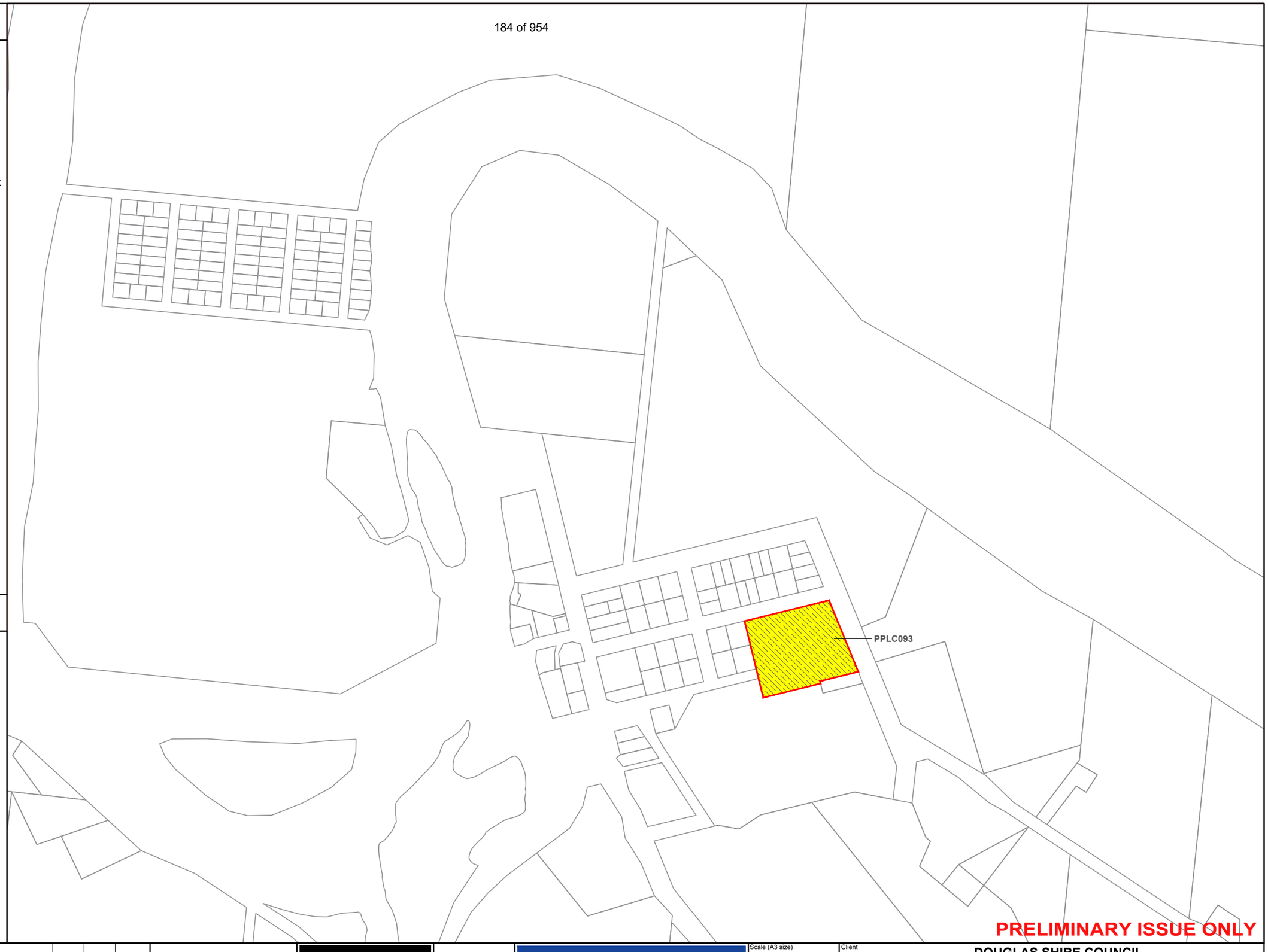
STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 1

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Scale (A3 size)	Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
1:7500	IM	RR	RR	RR	R RANKINE		31/07/17	1100-121	A

Drawing is not to be used for construction unless approved.

Client: DOUGLAS SHIRE COUNCIL
Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
Title: FUTURE PARK TRUNK INFRASTRUCTURE - GRID 1

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

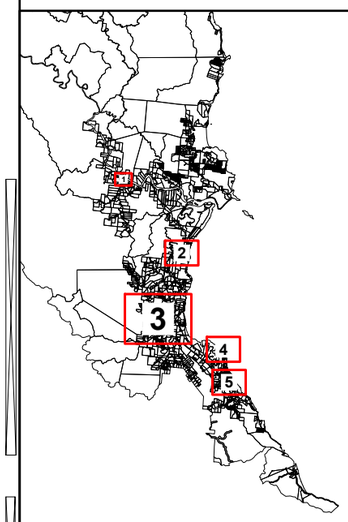
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP



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Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 2

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Scale (A3 size)	Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
1:15000	IM	RR	RR	RR	R RANKINE		31/07/17	1100-122	A

Drawing is not to be used for construction unless approved.

Client: DOUGLAS SHIRE COUNCIL
Project: 1100 DOUGLAS SHIRE COUNCIL LGIP
Title: FUTURE PARK TRUNK INFRASTRUCTURE - GRID 2

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

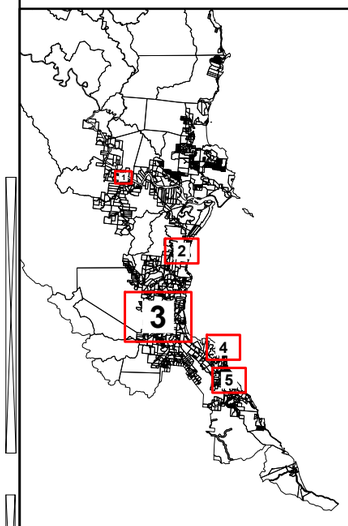
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

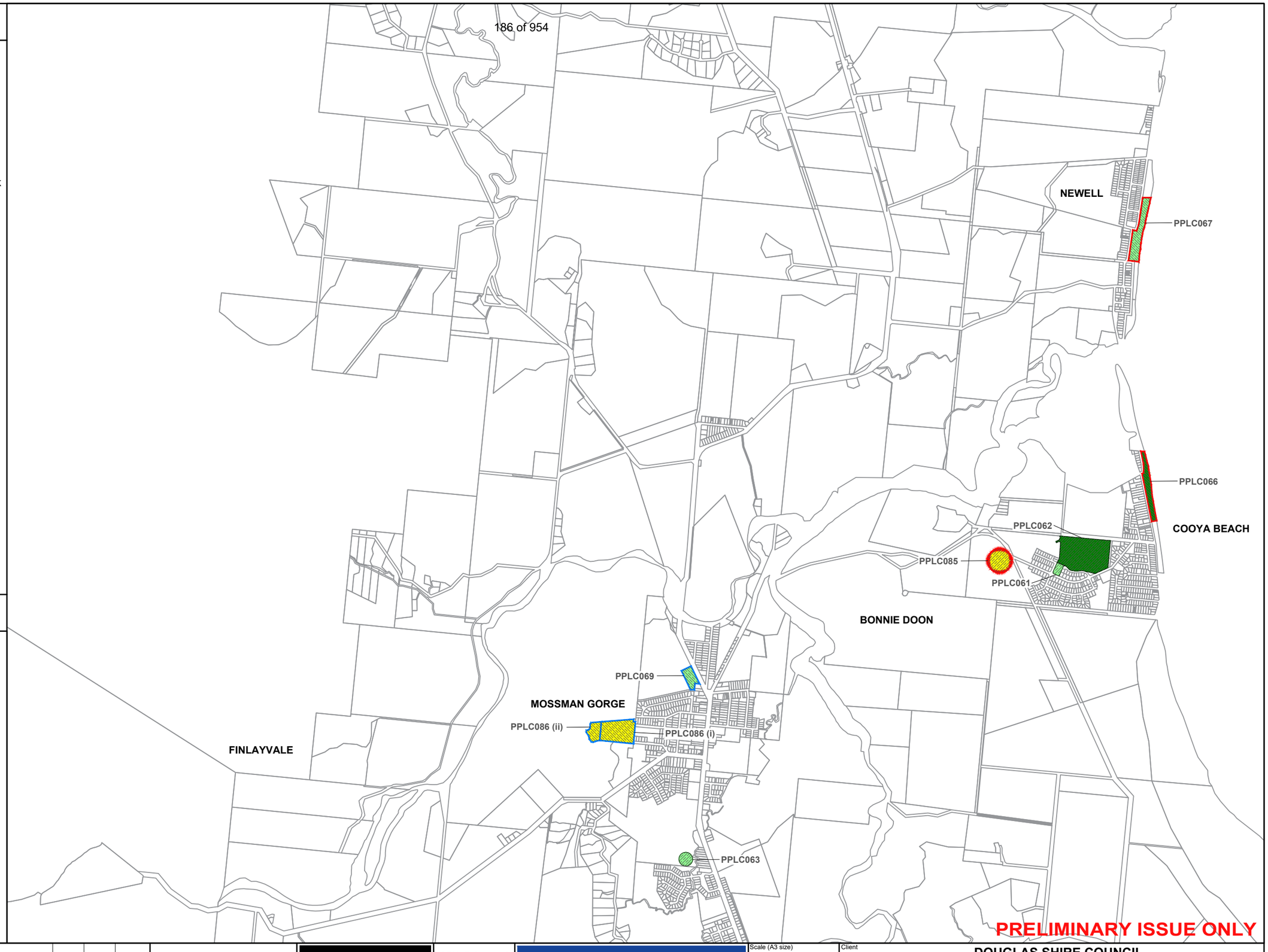
STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP





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Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 3

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Scale (A3 size): 1:30000

Drawing is not to be used for construction unless approved.

Client: DOUGLAS SHIRE COUNCIL

Project: 1100 DOUGLAS SHIRE COUNCIL LGIP

Title: FUTURE PARK TRUNK INFRASTRUCTURE - GRID 3

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		31/07/17	1100-123	A

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

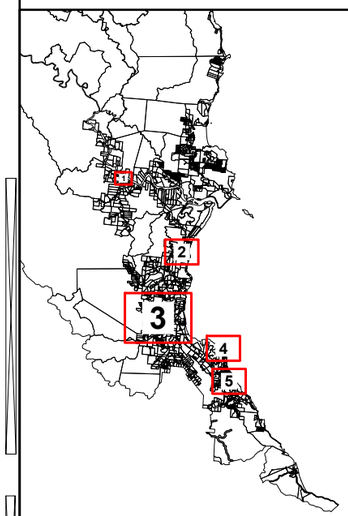
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP



PRELIMINARY ISSUE ONLY

Revisions					
No.	Description	Reviewed	Approved	Date
A	ISSUED FOR REVIEW			

GRID: 4

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Scale (A3 size)	Client	
1:15000	DOUGLAS SHIRE COUNCIL	
Drawing is not to be used for construction unless approved.	Project: 1100 DOUGLAS SHIRE COUNCIL LGIP	
	Title: FUTURE PARK TRUNK INFRASTRUCTURE - GRID 4	

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		31/07/17	1100-124	A

LEGEND

EXISTING PARK TRUNK INFRASTRUCTURE

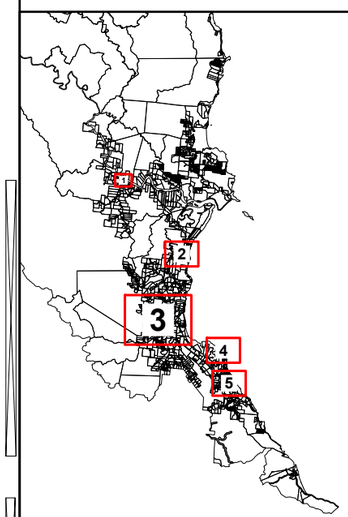
- LOCAL RECREATION PARK
- DISTRICT RECREATION PARK
- DISTRICT SPORTS PARK
- LOCAL GOVT WIDE RECREATION PARK
- LOCAL GOVT WIDE SPORTS PARK
- COMMUNITY FACILITIES
- OTHER OPEN SPACE
- LAND FOR DRAINAGE PURPOSES
- CONSERVATION

STATUS OF INFRASTRUCTURE

- FUTURE PARK
- PARK UPGRADE

N

KEY MAP



CRAIGLIE

PORT DOUGLAS

PPLC070

PPLC064

PPLC065

PRELIMINARY ISSUE ONLY

Revisions					
No.	Description	Reviewed	Approved	Date	
A	ISSUED FOR REVIEW				

GRID: 5

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Scale (A3 size)	1:15000
	Drawing is not to be used for construction unless approved.
Client	DOUGLAS SHIRE COUNCIL
Project	1100 DOUGLAS SHIRE COUNCIL LGIP
Title	FUTURE PARK TRUNK INFRASTRUCTURE - GRID 5

Drawn	Designed	Drawing Check	Design Check	Approved	RPEQ	Date	Drawing No.	Revision
IM	RR	RR	RR	R RANKINE		31/07/17	1100-125	A

DOUGLAS SHIRE COUNCIL

Trinity Engineering and Consulting

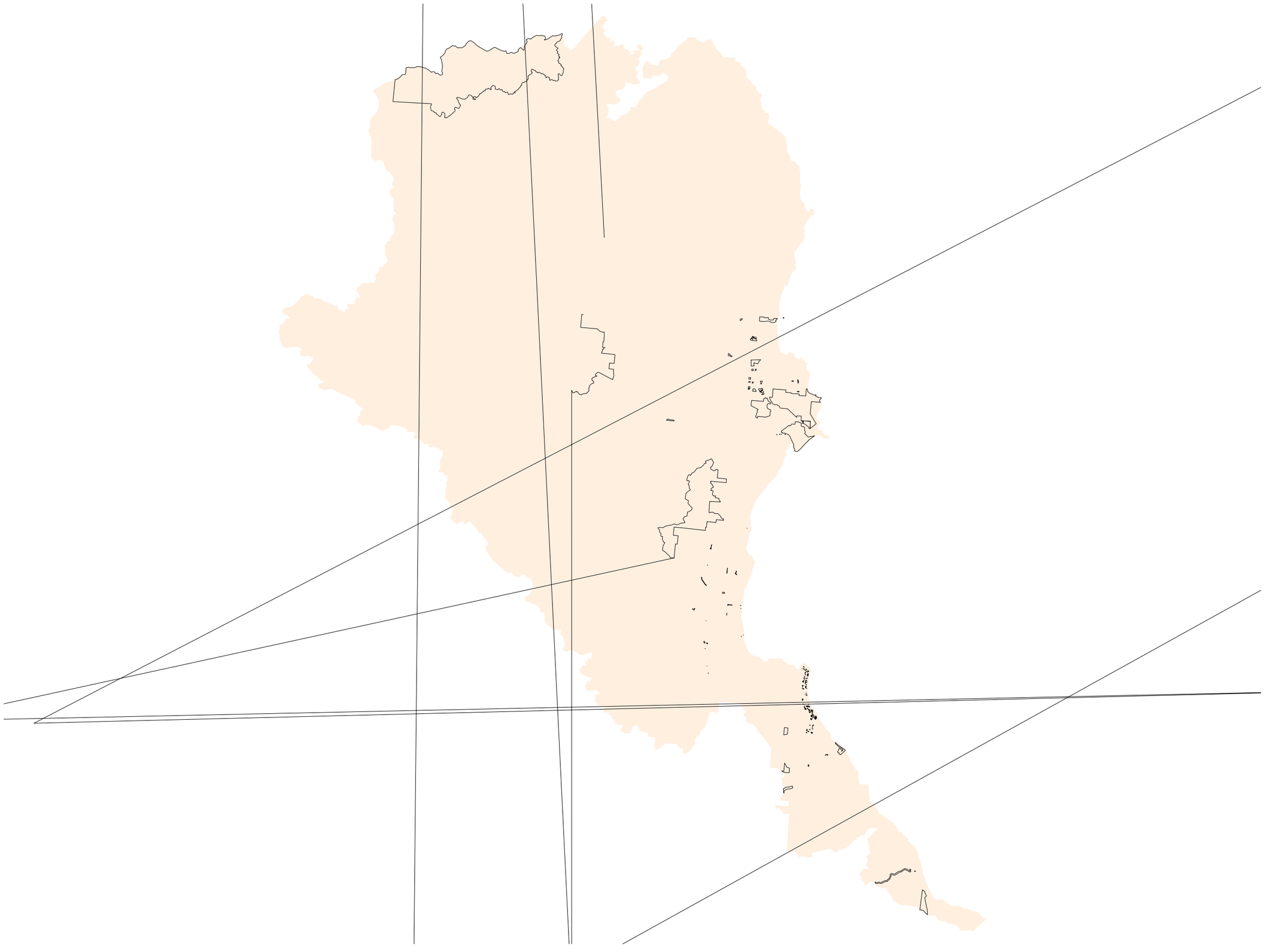
LOCAL GOVERNMENT INFRASTRUCTURE PLANS (STORMWATER TRUNK INFRASTRUCTURE)

for

DOUGLAS SHIRE COUNCIL

SCHEDULE OF PROJECT DRAWINGS

PRELIMINARY ISSUE ONLY



Appendix D – LGIP Checklist

Appendix D is part of Statutory Guideline 03/14 – Local government infrastructure plans

Review principles:

- A reference in the checklist to the LGIP Template is taken to include a relevant reference to the SPA, statutory guideline for LGIPs, statutory guideline for MALPI or the Queensland Planning Provisions (QPP).
- Compliance requirements are not limited to the requirements listed in the checklist.

Local government infrastructure plan (LGIP) checklist				To be completed by local government		To be completed by appointed reviewer			
LGIP guideline outcome	**LGIP component**	**Number**	**Requirement**	**Requirement met (yes/no)**	**Local government comments**	**Compliant (yes/no)**	**Justification**	**Corrective action description**	**Recommendation**
The LGIP is consistent with the legislation and statutory guideline for LGIPs	**All**	1.	The LGIP sections are ordered in accordance with the LGIP template.	YES	The LGIP sections are structured and ordered in accordance with the LGIP template				
		2.	The LGIP sections are correctly located in the planning scheme.	YES	The LGIP will be located in section 4 of the Douglas Shire Council Planning Scheme				
		3.	The content and text complies with the mandatory components of the LGIP template.	YES	Complies				
		4.	Text references to numbered paragraphs, tables and maps are correct.	YES	Complies				
	Definitions	5.	Additional definitions (to those in the QPP) do not conflict with statutory requirements.	YES	There are no additional / alternative definitions used.				
	Preliminary section	6.	The drafting of the Preliminary section is consistent with the LGIP template.	YES	The drafting of the preliminary section has been undertaken in accordance with the LGIP template				
		7.	All five trunk networks included in the LGIP. If not, which networks are excluded? Why have these networks been excluded?	YES*	The LGIP contains detailed planning for the water, sewerage, roads, paths, and public parks and community facilities trunk network. However, the stormwater trunk infrastructure network has not been *detailed* in the LGIP. This is a result of insufficient information being currently available to undertake reliable, (detailed) infrastructure planning for this network. Under the current version of the LGIP, a provision for detailed infrastructure planning in the forms of a drainage management plan (DMP) for the Port Douglas and Environs and Mossman and Environs regions.				
	Planning assumptions - structure	8.	The drafting of the Planning assumptions section is consistent with the LGIP template.	YES	The drafting of the planning assumptions has been prepared using the LGIP template. It is noted that section 4.2.2 of the template requires developable areas to be mapped in Schedule 3. Council requests a relaxation of this requirements as it is not considered reasonable (or indeed possible at this stage) to map the developable areas, given they are affected by a range of locality specific constraints and opportunities, and design matters which may only be determined on a case-by-case basis. The developable areas are generally depicted on the zones.				

					(Which are also on the PIA maps).				
		9.	All the projection areas listed in the tables of projections are shown on the relevant maps and vice versa.	YES	All the projection areas listed in the tables of projections are shown on the relevant maps and vice versa.				
		10.	All the service catchments listed in the tables of projected infrastructure demand are identified on the relevant PFTI maps and vice versa.	YES	Separate service catchment maps have been provided as part of the PFTI maps.				
	Planning assumptions - methodology	11.	The population and dwelling projections reflect those prepared by the Qld Government Statistician (as available at the time of preparation).	YES	The population and dwelling projections are aligned with forecasts prepared the QGSO that were current as at 1/6/17. The base year of the projections contained in the LGIP is 2011, as it provided the most recent complete set of data from an Australian Census. Australia's 2016 census data was not released at the time of the preparation of the LGIP. The resident population as reported by the QGSO at 2011 was 11,186 persons. However, to appropriately account for infrastructure demand generated by tourists, the population projections contained in the Douglas LGIP must include tourist projections. At base year the tourist population is estimated to be 5,364 (based on Visitor Population from the ABS), taking the total population (residents and tourists) to 15,546 in 2011. This equates to a visitor to resident population of 45.4%. At the time of writing the LGIP, the Population data from the 2016 Census had just been released. Similarly the figures for Residents = 11,911 persons Visitors = 6,490 persons Visitors / Residents = 54.8% Due to the variability of tourist numbers, and average of the two census years was taken (=49.94 (~50%)) Resident population projections for the subsequent time periods are based on the medium series forecasts, with tourist projections increasing in line with population growth. Dwelling forecasts have been determined by converting population to dwellings using average household size information from QGSO and ABS. The breakdown between dwelling types has also been based on 2011 ABS census data (dwelling types and persons per dwelling based on Place of Enumeration (PEP) ABS Table				

				B31).				
	12.	The employment and non-residential development projections align with the available economic development studies, other reports about employment or historical rates for the area.	YES	The employment and non-residential projections are based on ABS employment and labour force data for base year projected in increase in line with population growth. Employment and floor space projections have been allocated to projection areas based on an assessment of non-residential land uses and demands by planning district.				
	13.	The developable area excludes all areas affected by absolute constraints such as steep slopes, conservation and flooding.	YES	Projected population and employment growth have been estimated considering absolute constraints to development. The extent of urban zones in the draft Planning Scheme (2016) already incorporates overlay constraints such as flooding, hillslopes and natural areas.				
	14.	The planned densities reflect realistic levels and types of development having regard to the planning scheme provisions and current development trends.	YES	The assumed densities identified in the LGIP are based on an assessment of Planning Scheme Code provisions, average allotment yields determined through review of the DCDB, previous development approvals, and discussions with Council planners. The densities used are considered realistic based on market demand in the Local government area. A review of the Council's Demand and Population model which has was developed prior to 2011 and based on the assumed densities, shows a high degree of correlation (+/- 10%) , which further supports and validates the density assumptions made.				
	15.	The planned densities account for land required for local roads and other infrastructure.	YES	20-30% allowance for road, open space and other infrastructure has been factored into the density calculations.				
	16.	The population and employment projection tables identify "ultimate development" in accordance with the QPP definition.	YES	The population and employment projection tables identify "ultimate development" in accordance with the QPP definition. This is estimated to be at approximately 2061.				
	17.	Based on the information in the projection tables and other available material, it is possible to verify the remaining capacity to accommodate growth, for each projection area.	YES	LGIP planning assumptions tables have been prepared using the format required of the LGIP template, which shows projections for each projection year and ultimate development. From this information, it is possible to determine remaining capacity after each time period.				
	18.	The planning assumptions reflect an efficient, sequential pattern of development.	YES	The planning assumptions reflect the planning scheme provisions and associated land use pattern, the extent of growth areas, propensity to				

					develop, and align with QGSO forecasts. The PIA are considered defined to constrain development in area to ensure an efficient and sequential pattern of development.				
		19.	Has the Department of Transport and main Roads or any relevant distributor-retailer been consulted in the preparation of the LGIP? What was the outcome of the consultation?	YES	TMR was consulted in relation to the LGIP and its integration of with their planning. Outcomes: 1) TMR initially advised that they thought the initial designation of road hierarchies was excessive. These have been reviewed in line with htose recommended by TMR and consultation with Council's traffic and transport planners and Engineers. 2) Craiglie Bypass: TMR advised a preference for transport planning to be undertaken on the western side of the Highway at Craiglie. Whilst this was outside of the projected planning horizon, it's location, nominal road alignment and associated infrastructure have been identified within the PFTI and the SoW as an "Area of Investigation". No cost has been considered in the context of infrastructure required to service this area in the current LGIP. It is expected that this will be refined over the next reviews of the LGIP as discussions with Council and TMR continue. 3) TMR are not planning any upgrade/ capital works along any of the SCR or trunk roads in the next 15 years. Although that is subject to change. Council has acknowledged TMR's advice and made changes to the LGIP planning and SoW to reflect these comments.				
	Planning assumptions - demand	20.	The infrastructure demand projections are based on the projections of population and employment growth.	YES	Infrastructure demand projections have been expressed in the units defined by the LGIP template. The rates of growth in demand is reflective of population and employment growth. The projections have been prepared at the service catchment level and reflect generally understood and recognised demand generation rates for the respective zones and land uses.				
		21.	The demand generation rates align with accepted rates and/or historical data.	YES	The projections have been prepared at the service catchment level and reflect generally understood and				

					recognised demand generation rates for the respective zones and land uses. The DSC demand generation rates have been benchmarked and validated against historic data and compared to CRC Council's demand generation rates. The demand generation rates reflect generally accepted rates defined in relevant standards (FNQROC).				
		22.	The service catchments used for infrastructure demand projections are identified on relevant PFTI maps and demand tables.	YES	Service catchments are identified in the PFTI maps contained in Schedule 3, for each network, and within the demand tables.				
		23.	The service catchments for each network cover, at a minimum, the PIA.	YES	Refer to the network catchment maps, and PIA Plans as contained in Schedule 3				
		24.	The Asset Management Plan and Long Term Financial Forecast align with the LGIP projections of growth and demand. If not, is there a process underway to achieve this?	YES* (in progress)	Council has through the LGIP process recognised the importance of alignment of these varying management documents. While some alignment had been undertaken in the past there is now an increased awareness of the criticality of such within the organisation. Council has committed resources to the development and refinement of their AMP, LTAMP, LTFF. However, at the time of the preparation of the LGIP, this process was still ongoing. There remains a need to further develop data management and business practices to ensure a commonly agreed set of base assumptions and data capture between the LGIP, LTAMP and LTFF.				
	Prioirty infrastructure area (PIA)	25.	The drafting of the PIA section is consistent with the LGIP template.	YES	The drafting of the PIA section is consistent with the LGIP template.				
		26.	Text references to PIA map(s) are correct.	YES	Refer to the PIA Plans in Schedule 3				
		27.	The PIA boundary shown on the PIA map is legible at a lot level and the planning scheme zoning is also shown on the map.	YES	Refer to the PIA Plans in Schedule 3				
		28.	The PIA includes all areas of existing urban development serviced by all relevant trunk infrastructure networks at the time the LGIP was prepared.	YES	The PIA includes all areas of existing urban development with all relevant trunk networks				
		29.	The PIA accommodates growth for at least 10 years but no more than 15 years.	YES	The PIA accommodates growth for approximately 10 years of urban growth from the date of adoption (expected 2018). The lower bound of provision has been provided for, based on the revised (and reduced) growth projections by the QGSO released in 2016. If the reduced growth projections are used – then there is capacity for approximately 15 yrs of development within the PIA.				

		30.	Are there areas outside the PIA for which the planning assumptions identify urban growth within the next 10 to15 years? If so, why have these areas been excluded from the PIA?	YES	There are some locations outside of the PIA where growth may occur in the next 10-15 years. This is primarily due to the planning scheme having more zone land available than is contained within the PIA, and the exact location of growth within the next 10-15 year is not clear. The definition of a PIA which excludes some areas in which development may occur is to enable Council to focus their energy and resources into the efficient planning and delivery of infrastructure to areas contained within the PIA. IT should be noted that the extent of growth is very minor and unlikely to influence any new capital works in these locations. As such, it is not expected that it would alter the planning and demand assumptions within the PIA.				
		31.	The PIA achieves an efficient, sequential pattern of development.	YES	While minor growth is projected to occur outside the PIA, the PIA focusses on fully serviced urban zoned land only. This will help to achieve efficiencies in infrastructure provision by encouraging the logical extension to the current urban form.				
	Desired standards of service (DSS)	32.	The drafting of the DSS section is consistent with the LGIP template.	YES	The LGIP has been prepared using the LGIP template and has a desired standard of service (DSS) clearly articulated for each network.				
		33.	The DSS section states the key planning and design standards for each network.	YES	The DSS section states the key planning and design standards for each network.				
		34.	The DSS reflects the key, high level industry standards, regulatory and statutory guidelines and codes, and planning scheme policies about infrastructure.	YES	The DSS for each network refers to the key standards contained in other relevant documents (eg. FNQROC Development Manual, QUDM etc)				
		35.	There is alignment between the relevant levels of service stated in the local government's Long Term Asset Management Plan (LTAMP) and the LGIP. If not, is there a process underway to achieve this?	YES*	It is the intention of Council's DSS and LTAMP to provide and fund infrastructure in an effective and efficient manner that reduces whole of life cycle costs while meeting community expectations and standards. The LTAMP in and of itself does not identify specific infrastructure Standards. However, Council's defined Desired Standards of Service (DSS) and infrastructure planning that has been undertaken as part of the LGIP seeks to minimise whole of lifecycle costs- which is consistent with a key outcome of a LTAMP. Furthermore the DSS and infrastructure standards currently adopted (FNQROC etc.) refer to widely accepted				

					standards and practices for the planning, construction and design of infrastructure in a safe and efficient manner. It is a combination of these processes, which demonstrate Alignment with the intents of LTAMP. Council is also currently developing their Strategic and Long-Term Asset Management Policies. Once completed, it is a requirement for Council to review the LGIP and LTAMP's to ensure congruence.				
	Plans for trunk infrastructure (PFTI) – structure and text	36.	The drafting of the PFTI section is consistent with the LGIP template.	YES	The LGIP has been prepared using the LGIP template				
		37.	PFTI maps are identified for all networks listed in the Preliminary section.	YES	PFTI maps have been prepared for all infrastructure networks.				
		38.	PFTI schedule of works summary tables for future infrastructure are included for all networks listed in the Preliminary section.	YES	PFTI schedule of works tables have been provided for all trunk networks. As required by the template the schedules only relate to future works. The SoW template (excel based) contains all existing and future infrastructure for each network.				
	PFTI – Maps *[Add rows to the checklist to address these items for each of the networks]*	39.	The maps clearly identify the existing and future trunk infrastructure networks distinct from each other.	YES	Existing and future networks have been mapped for all the LGIP networks and provided in the PFTI. Separate Plans for Existing and Future infrastructure have been provided where is was considered reasonable to improve legibility for the user(s).				
		40.	The service catchments referenced in the SOW model and infrastructure demand summary tables are shown clearly on the maps.	YES	The service catchments referred to the SoW model and infrastructure demand summary tables have been identified in the set of drawings for each of the infrastructure networks.				
		41.	Future trunk infrastructure components are identified (at summary project level) clearly on the maps including a legible map reference.	YES	Complies. Future infrastructure items are clearly identified on the mappings. The legend provides the user with assistance to understand the type of infrastructure assets, and works to be undertaken.				
		42.	The infrastructure map reference is shown in the SOW model and summary schedule of works table in the LGIP.	YES	Complies. Infrastructure items are clearly identified on the mapping, and are labelled with Unique ID numbers. These numbers correlate to the numbering contained within the Schedule of Works table in the LGIP and SoW model.				
	Schedules of works *[Add rows to the checklist to address these items for each of the networks]*	43.	The schedule of works tables in the LGIP complies with the LGIP template.	YES	Complies. The schedule of works templates in the LGIP have been prepared using the LGIP template				
		44.	The identified trunk infrastructure is consistent with the SPA and LGIP guideline.		The infrastructure depicted on the plans has been determined in consultation with Council based on an assessment of				

					those elements of the network which perform a shared function. Non-trunk infrastructure or 'internal' infrastructure has been excluded.				
		45.	The existing and future trunk infrastructure identified in the LGIP is adequate to service at least the area of the PIA.		The infrastructure network planning has been undertaken, taking into consideration demand across the entire service catchment(s). These extend beyond the PIA.				
		46.	Is there alignment of the scope, estimated cost and planned timing of proposed trunk capital works contained within the Schedule of Works and the relevant inputs of the LTAMP and LTFF? If not, is there a process underway to achieve this?	NO	Council are in the process of developing their LTFF and LTAMP. In this regard, alignment has not been explicitly completed to date. However, the importance and value of this requirement to ensure the cohesion between Council business units and financial sustainability is noted. As Council continues to develop their SAMP/ LTAMP/ LTFF, we will continue to actively work to align all planning, engineering and financial reporting around the varying expenditures and revenues to ensure clarity and certainty of alignment. It is noted and expected that full alignment between all these documents may be difficult, and will require iterations to achieve even "sufficient alignment". Some areas which are expected to require more detailed consideration would be:- • **LGIP/ LTFF** The LGIP contains infrastructure works (or land) which is delivered by the development industry, concurrent with land development. In this scenario the works would not typically form part of Council's LTFF or Capital Works Program. It is also expected that • **LGIP/ LTAMP** The timing of infrastructure delivery in the LGIP is the current "best estimate" of when it will be required to service the required demand. The necessarily requires the reliance on assumptions (population growth, development patterns, economic conditions etc). The due to the Trunk nature of the items identified within the LGIP (i.e. high value/ critical nature), movements in the timing of delivery is expected to create the need to revisit the LGIP/ LTAMP regularly to ensure congruence. **LGIP/LTAMP/LTFF/ Capital Works Program.** Consistency of data capture will				

					be critical (i.e. ensuring that data for and from each of these items are able to be sufficiently detailed and captured to ensure useability between each.				
		47.	The cost of trunk infrastructure identified in the SOW model and schedule of works tables is consistent with legislative requirements.	Yes	The Key Input assumptions are documented within the SoW model and are consistent with industry standards and legislative requirements. Costs have been determined using the best information available (unit rates and project cost estimates). Allowances for the Project Owners Cost has been set as 20% across all asset classes. This is within accepted industry standards and is recognised by the State as reflected by the SoW User manual. Time based contingencies have been applied of 10%,15%,20% and 30% for works being undertaken within horizon of 5,10,15 and 20 years respectively. The exception of which is transport in which a 40% contingency is provided, for works planned outside of the 20-year horizon. This is in accordance with TMR's road planning and design manual and Evan's and Pecks (2009) report on Contingencies and on-costs – as reference in the Statutory guideline 03/14.				
	SOW model	48.	The submitted SOW model is consistent with the model included with the statutory guideline for LGIPs.	Yes	Complies The LGIP – SoW model has been prepared using the template provided as part of the Statutory guideline for LGIPs and its associated User Manual				
		49.	The SOW model has been prepared and populated consistent with the statutory guideline for LGIPs and its User manual for the SOW model.	Yes	Complies The LGIP – SoW model has been prepared using the template provided as part of the Statutory guideline for LGIPs and its User Manual for the SoW model				
	Extrinsic material	50.	All relevant background studies and reports in relation to the preparation of the LGIP are available and identified in the list of extrinsic material in the LGIP guideline.	Yes	All key background studies and reports in relation to the preparation of the LGIP are available and identified in the list of extrinsic material in the LGIP.				

4.1 Desired standards of service

(1) This section states the key standards of performance for a trunk infrastructure network.

(2) Details of the standard of service for a trunk infrastructure networks are identified in the extrinsic material.

4.1.1 Water supply network

The Desired Standards for water supply trunk infrastructure are shown in *Table 22.4 – Desired Standards of Service – Water Supply* and should be read in conjunction with Local Government's own adopted technical standards.

Table 22.1— Desired Standards of Service – Water Supply

Planning Standard	Community Outcomes
Ensure drinking water complies with the NHMRC Australian Drinking Water Guidelines for colour, turbidity and microbiology.	• Provides uniform quality of water monitored in relation to recognised standards. • Provide a safe and reliable water supply. • Safeguards community health.
Water infrastructure provides for system operation and monitoring in accordance with recognised standards.	• Ensures environmental controls are maintained. • Ensures potable water is provided in a manner consistent with environmental standards.
Reduce non-revenue water.	• Extend asset life. • Improve environmental flows. • Reduced greenhouse gas emissions. • Reduce extraction of water from source.
Provide infrastructure which minimises power usage.	• Reduced cost of energy. • Cost effective service for community. • Reduced greenhouse gas emission.
Develop and maintain excellence in appropriate new technologies.	• Reduced cost of energy and chemicals. • Cost effective service for community. • Reduced greenhouse gas emissions. • Reduced environmental effects from chemical production.
Provide infrastructure which minimises whole of life costs.	• Cost effective service for community. • Reduced energy cost. • Reduced maintenance costs. • Reduced overall operation costs. • Reduced replacement costs. • Reduction in disposal of waste. • Reduced environmental effects from chemical production.

Design Standards	Community Outcome
Design water supply infrastructure to comply with: • FNQROC Development Manual; • EPA Requirements; • DNR Requirements; • SAMP Customer Service Standards; • Water Act 2000; • Plans for Trunk Infrastructure – Water Supply.	• Provides uniform quality of water monitored in relation to recognised standards. • Provide a safe and reliable water supply. • Safeguards community health.

4.1.2 Sewerage network

The Desired Standards for water supply trunk infrastructure are shown in Table 22.5 – *Desired Standards of Service – Sewerage and* should be read in conjunction with Local Government's own adopted technical standards.

Table 22.2— Desired Standards of Service – Sewerage

Planning Standard	Community Outcomes
Ensure wastewater collection, transportation and treatment system remains effective.	• Reduced impact from blockages, overflows and spills. • Reduced impact on residents. • Reduced lease of Nitrogen and phosphorous to aquatic ecosystems. • Improved community health. • Reduced greenhouse gas emissions.
Provide infrastructure which minimises energy usage.	• Reduced cost of energy. • Cost effective service for community. • Greenhouse gas reduction.
Provide infrastructure which minimises whole of life costs.	• Cost effective service for community. • Reduced energy cost. • Reduced maintenance costs. • Reduced overall operation costs. • Reduced replacement costs. • Reduction in disposal of waste. • Reduced greenhouse gas emissions. • Reduced environmental effects from chemical production.
Achieve excellence in appropriate new technologies.	• Reduced cost of energy and chemicals. • Cost effective service for community. • Reduced greenhouse gases. • Reduced environmental effects from chemical production.

Maximise opportunities for re-use of effluent.	• Beneficial use of reclaimed water and biosolids. • Opportunity for cost recovery for reclaimed water treatment. • Reduction in use of potable water supply and treatment. • Reduced release of nitrogen and phosphorous to aquatic ecosystems. • Reduction of raw water extraction from source.
Design Standards	**Community Outcome**
Design wastewater infrastructure to comply with: FNQROC Development Manual; EPA Requirements; DNR Requirements; SAMP Customer Service Standards; Water Act 2000 Plans for Trunk Infrastructure - Wastewater	• Noise control. • No adverse visual effect. • Control of overflows from system. • Improves community health. • Reduction in contaminated discharges. • Reduced odour emissions.
Ensure infiltration and inflow in new wastewater collection and transportation systems remain within industry acceptable limits (compliance with Environmental licences, IEMS and associated EMPs) and is minimised to a practical extent in existing systems.	• Reduced cost of energy for effluent transport, treatment and disposal. • Minimise customer overflow issues. • Maximise life of system. • Reduced overflows to local waterways.

4.1.3 Stormwater network

The Desired Standards for water supply trunk infrastructure are shown in Table 22.6 – *Desired Standards of Service – Stormwater and* should be read in conjunction with Local Government's own adopted technical standards.

Table 22.3— Desired Standards of Service – Stormwater

Planning Standard	Community Outcomes
Provide system of shared stormwater infrastructure allowing free and safe drainage of urban land while maintaining or improving the quality of run-off.	• Minimises inundation of habitable areas • Minimises the damage and risk associated with flooding • Minimises the impact of development on the ecological health and water quality within waterway corridor
Ensure the use of Water Sensitive Urban Design and other types of on-site infrastructure to minimise impact on trunk infrastructure	• Provides waterways infrastructure at least life cycle cost • Reduces the scale of shared infrastructure by optimising on site solutions • • Improves water quality at the point of discharge to benefit the waterway corridor's health

Planning Standard	Community Outcomes
Ensure sufficient buffers from urban development along waterway corridors for ecological links (including rehabilitation of degraded waterway corridor banks, where required).	• Maintain or improves environment amenity such as scenic values and natural construction • Erosion and sedimentation is minimised • Negative impacts on adjoining and downstream properties are minimised • Protects environmentally sensitive areas from development
Ensure natural stream processes are maintained within waterway corridors.	• Reduces the need for costly structural treatments of waterway corridor banks • Provides for natural processes of accretion, erosion and sedimentation and reduces environmental effects from pollution • Increases regional water quality
Design Standards	**Community Outcome**
Design stormwater infrastructure to comply with: • FNQROC Design Manual; • Queensland Urban Drainage Manual (QDUM); and • EPA requirements and guidelines.	• Free and safe drainage of urban land • Maintain or improve water quality and ecological health
Where appropriate, implement Water Sensitive Urban Design principles to achieve maximum on site quantity and quality treatment and minimise offsite discharge.	• Maximise the water quality on site • Negative impacts on adjoining and downstream properties are minimised
Implement regional and on-site detention facilities to minimise the impact of peak run-off for the full range of events (Q1 to Q100) from developments, taking into account safety and risk. Design detention basins to maintain pre-development peak flow levels from the development site for all flood events (Q1 to Q100). Design Detention Basins in the same catchment to ensure that the coincident peak discharge at downstream control points is not increased.	• Reduces the cumulative impact from existing and future developments on peak flow levels • Reduces the need to increase the size of waterway corridors and underground drainage • Increases active and passive recreation opportunities • Minimises the impact on the environmental values of downstream waterway corridors by maintaining pre-development flows and velocities • Reduces downstream sedimentation by slowing flow velocities
Design bridges and culverts with appropriate flood immunity and capacity to convey floodwater, taking into account the Council's road hierarchy. Construction of bridges and culverts must not adversely impact on the natural environment, such as through the loss of vegetation and undesirable impacts on bio-diversity. Design bridges and culverts to maintain fauna and recreational links.	• Ensures road crossings operate safely in times of inundation • Reduces the risk of flooding for upstream properties • Provides opportunities for extended pedestrian and bicycle links • Enhances ecological links

4.1.4 Transport network

The Desired Standards for water supply trunk infrastructure are shown in Table 22.7 – *Desired Standards of Service – Transport and* should be read in conjunction with Local Government's own adopted technical standards.

Table 22.4— Desired Standards of Service – Transport

Planning Standard	Community Outcomes
Road Network	
Define the road network as a functional road hierarchy of State Controlled Roads, Sub-arterial Roads, and Major and Minor Urban and Rural Collectors which support the Local government's urban and rural settlement patterns as well as commercial and economic activities.	• Protects the amenity of residential communities by removing non-local traffic. • Improves local safety by removing "through" traffic. • Reduces fuel consumption and emission levels by sustaining efficient operating speeds. • Maintains travel speeds in off-peak periods. • Reduces vehicle operating costs. • Improves public transport operation by improving travel speeds. • Supports economic growth by developing efficient and integrated transport networks. • Minimises through traffic and heavy vehicles in residential areas. • Limits community severance.
Path Network	
Define the trunk path network which provide improved access and alternative options for the travel mode.	• Protects the amenity of residential communities by providing an alternative mode of transport between locations • Provides a network of paths for recreational and commuter use • Provides facilities and access within the LGA which are not accessible by alternative transport options. • Provides a basis for a healthy and active community.
Design Standards	**Community Outcome**
Road Network	
Road network system is designed and provided in accordance with: • Queensland Streets, Queensland Residential Design Guidelines, FNQROC Development Manual, TMR and Australian Standards; and • Plans for Trunk Infrastructure – Road Network.	• Reduce delays during peak periods. • Improve safety by reducing vehicle speed differentials. • Supports efficient and integrated freight movement network.

Path Network	
Path network system is designed and provided in accordance with: • Queensland Streets, Queensland Residential Design Guidelines, FNQROC Development Manual, TMR and Australian Standards; and • Plans for Trunk Infrastructure –Path Network.	Provide a choice in mode of transport • Improve safety by providing dedicated Path networks. • Supports efficient, integrated and diverse modes of movement across the Path network.

4.1.5 Public parks and land for community facilities network

The Desired Standards for water supply trunk infrastructure are shown in Table 22.8 – *Desired Standards of Service – Transport and* should be read in conjunction with Local Government's own adopted technical standards.

Table 22.5— Desired Standards of Service – Public Parks and land for Community Facilities

Planning Standard	Community Outcomes
Provide a connected and accessible network of parks, open space, and community facilities that meet the needs of the Local government's residents and visitors.	• Provides opportunities for access and increased usage of open space, recreational and community facilities. • Provides for an appropriate balance of land uses and ensures high levels of amenity in the urban form. • Provides a basis for a healthy and active community.
Ensure strong linkages and, where possible, co-location of existing and future parks, open space and community facilities.	• Ensures utilisation of existing and future assets while maintaining maximum access.
Provide embellishments to public parks, commensurate with the range of activities envisaged.	• Provides open space embellishments that meet the needs of the community by providing a range of facilities for social activities and/or fitness/recreational pursuits. • Ensures activities are met and contained within designated areas - reducing potential off-site impacts to other more sensitive areas in the Local government.
Ensure that existing and future parks, open space and community facilities with significant environmental, waterway or cultural heritage value are managed appropriately.	• Protects and enhances items of cultural interest in the Local government for the benefit of current and future communities in the Local government. • Provides a basis for tourism opportunities. • Protection of the natural landscape ensures maintenance of quality of air, water and land resources reducing negative impacts requiring amelioration. • Recreational and sporting parks promote the health and wellbeing of the Local government's residents.
Design Standards	**Community Outcome**
Public parks and land for community facilities areas are provided in accordance with the preferred quantity, distribution (Shire wide, district, local, sporting, community), quality and level of development specified in Council's 'Public Parks and Land for Community Purposes Trunk Infrastructure Planning Study' and Plans for Trunk Infrastructure – Public Parks and Land for Community Facilities.	• Provides a standard of service reflecting the communities' needs as identified by the local government's adopted strategies. • Provides recreation and sporting parks with a diverse range of activity opportunities and landscape settings to encourage healthy lifestyles and maximise opportunities for activity. • Recreation and open space facilities are managed in the most efficient and cost-effective way. • Recreation and open space facilities can be safely and conveniently accessed by all existing and potential users.

Land provided for parks, recreation, and sport is not constrained by physical, environmental or other hazards.	• Ensure adequate provision of safe, accessible and usable facilities.
Ensure land is accessible, of suitable quality and integrated with the urban and open space networks. Provide an accessible network of parks, open space, and community facilities that meets the needs of residents and visitors in accordance with the rate of provision identified in Table 22.9 and accessibility standards outlined in Table 22.10. Ensure land for public parks and community facilities has minimum land size as identified in Table 22.11.	• Provides community access to a range of park, open space and community facilities.
Public park embellishments are provided in accordance with Council's 'Public Parks and Land for Community Purposes Trunk Infrastructure Planning Study' and the Plans for Trunk Infrastructure – Public Parks and Land for Community Facilities. Embellish public parks to complement the type and purpose of the public park as identified in Table 22.12.	• Provides a range of park types that are suitability embellished to meeting their purpose within the park hierarchy.

Table 22.6— Rate of Land Provision for Public Parks and Land for Community Facilities

Infrastructure Item	**Rate of Provision (Ha / 1000 people)**		
	Local	**District**	**Local Government Wide**
Recreation park (2.5 ha/1000)	1 ha/1000	1.3 ha/1000	0.2 ha/1000
Sport park (2 ha/1000)	0	1.6 ha/1000	0.4 ha/1000
Land for community facilities (0.3 ha/1000)	0	0.15 ha/1000	0.15 ha/1000

Table 22.7— Accessibility standards for Public Parks and Land for Community Facilities

Infrastructure Item	**Accessibility Standard (km)**		
	Local	**District**	**Local Government Wide**
Recreation park	500m	2-3km	10-15km
Sport park	N/A	2-5km	15km
Land for community facilities	N/A	5km	20km

Table 22.8— Size of public parks and land for community facilities

Infrastructure Item	Minimum size (Ha)		
	Local	District	Local Government Wide
Recreation park	1 ha pref – 0.5 ha min	2-5 ha	2-5 ha
Sport park	N/A	10 ha Minimum 7 ha (allows for 3 fields and ancillary)	20 ha
Land for community facilities	N/A	Cultural Activity Space (CAS) 1500m^2 Community Meeting & Activity Space (CMS) 2000m^2 Community Service Facility (CSF) 1000m2 Formal Memorial Space (FMS) 1000m^2	CAS 1 ha CMS 1 ha CSF 1 ha FMS 10 ha

Table 22.9— Standard facilities/embellishments for public parks

Embellishment Type	Recreation Park			Sports Park	
	Local	District	LGA - wide	District	LGA -wide
Water connection/tap	✓	✓	✓	✓	✓
Drinking Fountain	✓	✓	✓		
Lighting	✓	✓	✓	✓	✓
Fencing (bollard/post and top rail)	✓	✓	✓	✓	✓
Playground equipment (incl. Soft fall)	✓	✓	✓		
Seating	✓	✓	✓	✓	
Picnic Shelter	✓	✓	✓		
BBQ	✓	✓	✓		
Earthworks – Field preparation/Kickabout	✓	✓	✓	✓	✓
Spectator facilities	✓	✓	✓	✓	✓
Landscaping	✓	✓	✓	✓	✓
Power	✓	✓	✓	✓	✓
Irrigation (new parks)	✓	✓		✓	✓
Public Toilet	✓	✓	✓	✓	✓
Path/bikeways	✓	✓	✓	✓	✓
Car parking and access works	✓	✓	✓	✓	✓

Douglas Shire Council
Summary Cost Schedule

Catchment		Demand			Cost of Trunk Infrastrcutrue			Cost per Unit Demand
No	Name	Existing (A)	NPV Future (B)	TOTAL (A)+ (B)	Existing (C)	NPV Future (D)	TOTAL (C)+ (D)	
Water Supply								
1	PORT DOUGLAS (W1)	16,328	8,185	24,513	$ 36,906,931	$ 3,738,718	$ 40,645,649	$ 1,658
2	MOSSMAN (W2)	6,278	1,315	7,592	$ 19,669,038	$ 1,530,176	$ 21,199,214	$ 2,792
3	WHYANBEEL (W3)	1,702	1,016	2,718	$ 16,442,958	$ 7,951,522	$ 24,394,480	$ 8,975
4	DAINTREE (W4)	192	154	346	$ 4,144,119	$ -	$ 4,144,119	$ 11,987
5	SHARED TREATMENT (W1&W2)	22,605	9,658	32,263	$ 8,770,371	$ 401,111	$ 9,171,482	$ 284
	Totals	47,105	20,327	67,432	$ 85,933,417	$ 13,621,527	$ 99,554,943	
Sewerage								
1	PORT DOUGLAS (S1)	15,073	5,347	20,419	$ 8,044,945	$ 865,600	$ 8,910,545	$ 436
2	MOSSMAN (S2)	5,544	1,296	6,840	$ 3,121,009	$ 10,054,072	$ 13,175,081	$ 1,926
3	COOYA BEACH (S3)	267	978	1,245	$ 842,259	$ 2,992,106	$ 3,834,365	$ 3,081
4	NEWELL BEACH (S4)	-	505	505	$ -	$ 2,679,463	$ 2,679,463	$ 5,309
5	WONGA BEACH / ROCKY POINT (S5)	-	2,023	2,023	$ -	$ 11,823,432	$ 11,823,432	$ 5,846
6	SHARED TREATMENT (S2-S5)	5,811	4,801	10,612	$ -	$ 16,020,283	$ 16,020,283	$ 1,510
	Totals	26,695	14,948	41,643	$ 12,008,213	$ 44,434,955	$ 56,443,168	
Stormwater								
1	Douglas Shire Council (SW_1)	1	-	1	$ -	$ 562,943	$ 562,943	$ 562,943
	Totals	1	-	1	$ -	$ 562,943	$ 562,943	
Transport								
1	Douglas Shire South (TR1)	93,412	35,607	129,019	$ 80,915,408	$ 27,594,304	$ 108,509,712	$ 841
2	Douglas Shire North (TR2)	3,970	133	3,838	$ 39,540,777	$ -	$ 39,540,777	$ 10,303
	Totals	97,382	35,474	132,856	$ 120,456,184	$ 27,594,304	$ 148,050,488	
Parks and Community								
1	Port Douglas (PPLC1)	9,757	1,016	8,740	$ 6,775,813	$ 5,056,740	$ 11,832,553	$ 1,354
2	Mossman (PPLC2)	1,531	157	1,374	$ 1,405,834	$ 1,968,316	$ 3,374,150	$ 2,456
3	Cooya Beach (PPLC3)	667	57	610	$ 472,802	$ 942,820	$ 1,415,622	$ 2,321
4	Newell Beach (PPLC4)	329	37	292	$ 447,241	$ 445,457	$ 892,698	$ 3,055
5	Wonga Beach (PPLC5)	751	74	677	$ 670,062	$ 677,058	$ 1,347,120	$ 1,990
6	Rural Area - South of Mowbray River (PPLC6)	382	61	321	$ 138,333	$ 62,320	$ 200,653	$ 625
7	Rural Area - Mowbray River to Mossman River (PPL	418	51	368	$ 110,910	$ 68,787	$ 179,697	$ 489
8	Rural Area - Mossman River to Daintree River (PPLC	968	117	851	$ 475,178	$ 336,564	$ 811,743	$ 954
9	Rural Area - North of Daintree River (PPLC9)	743	115	628	$ 140,314	$ 256,770	$ 397,084	$ 632
0	District Shared Catchments (1,2,3,4,6&7)	5,784	1,825	7,609	$ 3,356,407	$ 2,263,065	$ 5,619,472	$ 739
0	District Shared Catchments (5,8&9)	1,223	174	1,397	$ 227,970	$ 872,770	$ 1,100,739	$ 788
0	Regional Shared Catchments (1-9)	7,007	1,999	9,006	$ 345,891	$ -	$ 345,891	$ 38
	Totals	29,560	2,313	31,873	$ 14,566,755	$ 12,950,666	$ 27,517,421	