

# ROADS COMMUNITY MEETING – GROUP 5

Email: [rcm@isaac.qld.gov.au](mailto:rcm@isaac.qld.gov.au)

Date: Tuesday 1 July

Location: Lotus Creek Homestead

## AGENDA ITEM

Meeting ground rules

Robert Perna

Director Engineering and Infrastructure

IRC Roads Program (how it is developed)

- Maintenance program
- Capital program

Michael Erickson

Infrastructure Coordinator East

Joel Kuczynski

Recoverable Works Coordinator

Volunteer works

Jason Frost

Manager Infrastructure

General business

# COMMUNITY ROADS MEETING GROUND RULES

## AIM

*The aim of setting ground rules as a guideline that participants agree to follow to make the meetings more productive and enjoyable.*

## GROUND RULES

- Be punctual and prepared
- Bring a positive and solution-focused mindset.
- Listen actively and respectfully.
- Engage constructively, share ideas, questions, and feedback openly
- Allow equal participation to make space for all voices to be heard.
- Keep an open mind and focus on understanding before responding.
- Respect everyone's time commitments and stay focused on the agenda.
- Discussions to remain relevant to the topic at hand meaning some items may need to be taken offline and followed up separately.
- Decision and action items will be recorded and meeting notes shared promptly with follow up on commitments and progress advised.



# Isaac Regional Council. Unsealed Roads Maintenance Proposal



[shepherdservices.com.au](https://shepherdservices.com.au)



# Deterioration

## What makes gravel roads deteriorate?

### Environmental factors

- Wetness and dryness: Weather conditions cause gravel to wear away

### Traffic

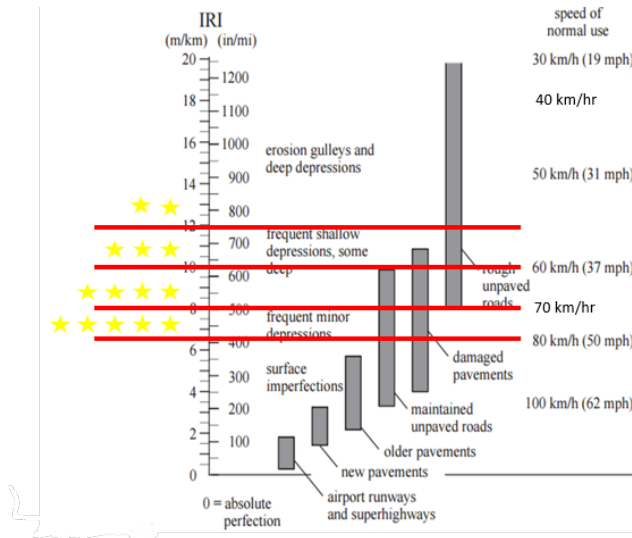
- Volume: Traffic volume and speed can cause gravel to wear away faster
- Composition: The type of vehicle using the road can affect how it deteriorates

### Gravel type

- Softer gravel: Softer gravel rocks wear away faster than harder gravel rocks
- Gravel mixture: The strength of the pavement depends on the mixture of gravel, clay, and other soils

# Unsealed Roads – Service Level Measures

## How Road Users Measure the Quality of Unsealed Roads



- **Surface Smoothness:**

- Comfortable & Safe Driving Speed
- International Roughness Index (IRI) interventions

- **Defect response times:**

- Longer response for lower order
- Standard response for make safe defects

- **Accessibility:**

- Gravel Coverage (inc. depth and quality)
- Wet weather access provided by gravel

# Proposed Approach



1. Develop service levels – Star Rating Approach
  - I. Understand why some roads are more important than others – Regional metrics for categorisation
  - II. Common and simple convention of road priorities
  - III. Established Level of Service, aligned with Star Rating
2. Rationalised defect types & maintenance activities
3. Implementation of fit-for-purpose Maintenance Management process
4. Develop a shared understanding of how Council prioritises maintenance work
5. Data as an asset: collect data that is fit for purpose

# Principles for Star Rating – Unsealed Roads

Rate	5	4	3	2	1
Current Class	Trunk Collector, Arterial,	Collector	Access St Major, Minor Collector	Access St Minor, Urban Local	Access Place, Rural Local
Traffic ADT	>120vpd	75-120vpd	40-75vpd	8-40vpd	<8vpd
Properties serviced	15	10 - 14	6-9	2-5	<2
Industry / Agg	4+	3	2	1	0
Crash Data	75th +	75th	30th	15th	3rd
FSI	75th +	75th	30th	15th	3rd
EMRG	75th +	75th	30th	15th	3rd
Bus Route	High std	Med std	Min Std	No	No
Regional/ Economic significance	Very High	High	Med	Low	Very Low
LRRS	Yes	No	No	No	No
Transport Route % Heavy Vehicles	>20%	15-19%	10-14%	5-9%	<5%
Average Travel Speed	100+kmh	80km/hr	70km/hr	60km/hr	50km/hr
Road Width	7+	6+	5+	4+	3
<b>Max Score</b>	<b>60</b>	<b>40</b>	<b>30</b>	<b>20</b>	<b>13</b>

- Overall, the aim is to ensure that the road network is safe, efficient, and reliable for all users, while ensuring that the maintenance and repair activities are prioritised based on the needs of the community.
- Prioritised work on roads used by the majority, rather than the few.
- Safety of the community is our top priority, with consideration of locations with a history of accidents or near-misses.
- Minimum levels of service for bus routes.
- Prioritisation of roads that have regional significance (tourism, agriculture, precinct areas).
- Cost-effective and equitable service delivery.



# Unsealed Roads – 5 Star Example ★★★★★

## High Rural Service Standard

- **Description:** Major movements between population centres, part of the primary network
- **Houses:** > 15
- **Vehicles per day:** > 120 vpd
- **Target Safe Driving Speed:** 80km/hr
- **Gravel coverage:** Resheet 150mm, target 100% coverage
- **Average Grading Freq:** 4 – 6 months
- **Wet weather access:** High
- **Defect Response Times (current):**
  - Hazardous: 60 days
  - Non-Hazardous: 90 days

Cotherstone Capella Road





# Unsealed Roads – 3 Star Example

## Low to Moderate Rural Service Std

- **Description:** Minimum standard for school buses, minor roads, may have packing sheds, cattle yards
- **Houses:** 6 – 9 Houses
- **Vehicles per day:** 40 – 75 vpd
- **Target Safe Driving Speed:** 60km/hr
- **Gravel coverage:** Resheet 50mm - 100mm, target 40 - 60% coverage
- **Average Grading Freq:** 18 – 24 months
- **Wet weather access:** Moderate
- **Defect Response Times (current):**
  - Hazardous: 90 days
  - Non-Hazardous: 180 days



Eaglefield Road, Pasha



Spring Valley Road, St



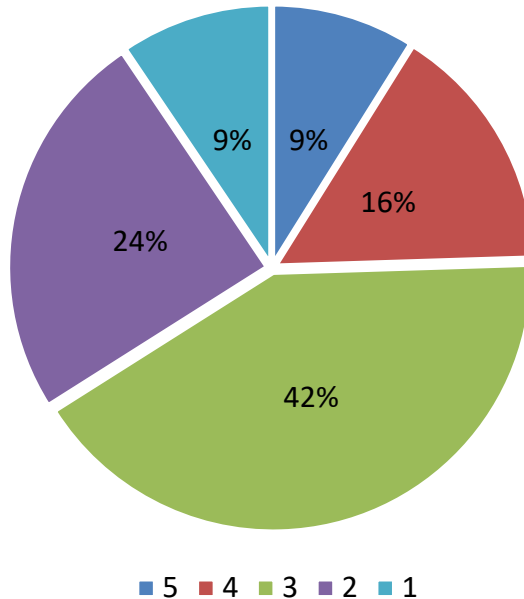
# Unsealed Roads – Star Rating Service Levels

Star Rating	Definition	Road Characteristics	Target Surface Condition	Level of Service	Inspection & Maintenance Response Times
5 star	Very high profile/utilisation	Major movements between population centres:	Grading Type: Medium Anticipated Grading Frequency: 4-6 months Target Gravel Coverage: 100% (Resheet every: 10-15 years)	Frequent proactive maintenance undertaken to ensure very high level of presentation and function at all times	Inspected: 8 weeks or major weather event
	Very high economic value	part of the primary network > 15 Houses > 120 vpd Typically: 80km/hr	Wet Weather Access: Very High	Reactive maintenance given high priority	Major Defect: 15 days Minor Defect: 60 days *A defect which requires repair prior to scheduled grading
	Very high risk rating				
4 star	High profile/utilisation	Roads that link to primary network connecting local centres:	Grading Type: Medium Anticipated Grading Frequency: 12 monthly Target Gravel Coverage: 80% (Resheet every: 15 - 20 years)	Less frequent proactive maintenance to ensure high standard of presentation and function.	Inspected: 3 monthly or major weather event
	High economic value	10 - 15 Houses > 1 industry/agriculture 75 - 120 vpd Typically: 70km/hr	Wet Weather Access: High	Reactive maintenance given high priority	Major: 15 days Minor: 90 days *A defect which requires repair prior to scheduled grading
	High risk rating				
3 star	Medium profile/utilisation	Minimum standard for school buses, may have packing sheds/cattle yards:	Grading Type: Light Anticipated Grading Frequency: 18-24 months Target Gravel Coverage: 50% (Resheet every: 20 - 30 years)	Occasional proactive maintenance to satisfactory standard of presentation and function.	Inspected: 6 monthly or major weather event
	Medium economic value	6 - 9 Houses > 1 industry/agriculture 40 - 75 vpd Typically: 60km/hr	Wet Weather Access: Medium	Reactive maintenance given medium priority	Major: 30 days Minor: 120 days *A defect which requires repair prior to scheduled grading
	Medium risk rating				
2 star	Low profile/utilisation	Provides access to low use areas/properties Minimum standard access to National Parks Access to minor tourism sites:	Grading Type: Light Anticipated Grading Frequency: 3 - 5 years Target Gravel Coverage: 25% (Resheet every: 30 years)	Some proactive maintenance activities undertaken	Inspected: 12 monthly or major weather event
	Low economic value	2 - 5 House 1 industry/agriculture 8 - 40 vpd Typically: 50km/hr	Wet Weather Access: Low	Primarily reactive maintenance	Major: 60 days Minor: 180 days *A defect which requires repair prior to scheduled grading
	Low risk rating				
1 star	Very low profile/utilisation	May provide access to rivers or paddocks 4WD Tracks:	Grading Type: Reactive Gravel Patching Only	Generally only reactive maintenance	Inspected: 12 monthly or major weather event
	Very low economic value	< 2 Houses Very small to no industry/agriculture < 8 vpd Typically: 40km/hr	Wet Weather Access: Difficult		Major: 90 days Minor: 180 days *A defect which requires repair prior to scheduled grading
	Very low risk rating				



# Results of Isaac Star Rating Review

Unsealed Roads Reviewed -  
Star Rating vs. Km's of Network



# Data informs it doesn't decide...



**Driving Better  
Decisions**



# Next Steps: 12 Month Review and Adjust

- Develop and Implement Planned Works Schedules
- Regularly inspect and measure performance
  - Pre-Grade – measure degradation
  - Post-Grade – measure Improvement
  - Monthly star 1- 5 not graded
- Validate data to inform Star Ratings – Including feedback through Community Road Groups \*we know we won't get this right first time!
- Staff Training and Capacity Building
- Review grading team performance – This has commenced with a review of all grader crews and some contractors for consistency across the region  
(cost, quality and plant/equipment)



# COMMUNITY ROAD GROUP 5 – ROAD LIST

ROAD NAME	RATING
Airstrip Road	Sealed
Barmount Road	3
Barmount South Road	2
Blue Mountain Road (TMR)	-
Borgs Road	2
Braeside Road	3
Bridsons Road	2
Burgess Road	2
Cockenzie Road	3
Collaroy Killarney Road	3
Collaroy Tierawoomba Road	3
Connors River Collaroy Road	3
Hamilton Park Road	1
Joe Lodge Road	1
Lotus Creek Road	3
Manly Access Road	2
Marlborough Sarina Road (TMR)	-
May Downs Road (TMR)	-

# COMMUNITY ROAD GROUP 3 – ROAD LIST

ROAD NAME	RATING
Mount Scott Road	1
Mountain View Road	1
Newyard Road	1
Oxford Downs Sarina Road (TMR)	-
Salt Bush Park Road	2
St Lawrence Croydon Road (TMR)	-
Waitara Road	2
Watkins Road	unformed

# VOLUNTEER FORM – not approved

## VOLUNTEER WORK ON LOCAL ROADS



Isaac Regional Council is collecting personal information you supply on this form in accordance with the Information Privacy Act 2009. Your personal information will be used by Council officers who have been authorised to do so. The information will not be given to any other person or agency unless required by law or unless your permission is sought. Personal information will be handled in accordance with the Information Privacy Act 2009.

Council is seeking registration of volunteers with suitable plant, equipment and experience to undertake minor works on local roads as required to maintain safe access for property owners and road users.

Engagement will be in accordance with the requirements of Council's Volunteer Policy CORP-POL-105 and this registration form.

### PERSONAL DETAILS

NAME  
POSTAL ADDRESS  
EMAIL  
PHONE

Will need registration

### PLANT AND EQUIPMENT

TYPE	MAKE AND MODEL	AGE	REGISTERED YES/NO	INSPECTED (COUNCIL USE ONLY)

### DESIGNATED OPERATORS

NAME	PLANT	YEARS EXPERIENCE	WITNESSED (COUNCIL USE ONLY)

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Date Effective: [insert effective date]  
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## VOLUNTEER WORK ON LOCAL ROADS



Volunteers working on local roads must comply with the following conditions

1. Notification prior to commencement of works by calling 1300 472 227 or 4941 8666.
2. Before and after photos to be submitted to council by Snap Send Solve app.
3. Traffic control signage is to be in place when working on the road in accordance with Council's traffic management plan (TMP). TMP and signage will be provided by Council.
4. Works in accordance with Council's Work Instruction, where applicable. Details to be provided by Council.
5. All works must be completed for the improvement of the safety and condition of the road.
6. If works are detrimental to the safety and condition of the road, this may result in the removal from the volunteer register.

REQUESTED BY Signature \_\_\_\_\_ Date \_\_\_\_\_  
Print Name \_\_\_\_\_

Once completed please send form and any attachment to:  
[records@isaac.qld.gov.au](mailto:records@isaac.qld.gov.au) or Isaac Regional Council, PO Box 97, Moranbah QLD 4744  
or deliver in person to your local Isaac Regional Council office

### DEPARTMENT USE ONLY

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# WORKS PROGRAM – Eastern Crew Grading

## Works to be completed by contractors

(based on defect report from Reflect, CRM requests, hazards, Star rating and previous years data)

Roads	Priority (Star) Rating	Scheduled	Total Length
Mount Scott Road	1	July	6.16
Collaroy Tierawoomba Road	3	July	33.874
Mountain View Road	1	July	12.027
Barmount Road	3	September	6.22
Isaac River Road	2	September	12.5
Valkyrie Road	3	September	3.8
Lotus Creek Road	3	October	24.94
Barmount South Road	2	October	9.302
Connors River Collaroy Road	3	October-December	28.957
Burrenbring Road	2	November	1.633
Johnsons Road	1	November	0.601
Braeside Road	3	November	0.6
Burgess Road	2	November	2.586
		<b>Subtotal</b>	<b>143.2</b>

# WORKS PROGRAM – Eastern Crew Grading

## Works to be completed by contractors

(based on defect report from Reflect, CRM requests, hazards, Star rating and previous years data)

Roads	Priority (Star) Rating	Scheduled	Total Length
Collaroy Killarney Road	3	October-December	44.327
Strathfield Road	3	December	8.345
Cockenzie Road	3	January	12.662
Hamilton Park Road	1	February	1.489
Newyard Road	1	February	1.304
Waitara Road	2	February	13.136
Salt Bush Park Road	2	March	3.8
Joe Lodge Road	1	April	5.651
Bridson Road	2	April	2.672
Borgs Road	2	April	0.888
		<b>Total</b>	<b>237.474</b>

# WORKS PROGRAM – CAPITAL

\* Works to be completed by contractors

Roads	CH Start	CH End	Total Length (m)
<b>RESEAL PROGRAM</b>			
Valkyrie Rd	28,900	54,500	25,600
<b>RESHEET PROGRAM</b>			
Walshs Road	0	1,610	1,610
Sewerage Treatment Plant Road	0	406	406
<b>REHAB PROGRAM</b>			
Valkyrie Road (LHS OWP)	41,595	42,400	804
Valkyrie Road (FW)	42,683	42,933	250

# WORKS PROGRAM – TMR

\* Works to be completed by contractors

Roads	Activity	Scheduled	Chainages
St Lawrence Croyden Road	Maintenance Grading	October-December	44.327
May Downs Road	Maintenance Grading	December	8.345
	Resheeting	January	12.662
	Shoulder Grading	February	1.489
	Shoulder Resheeting	February	1.304
Marlborough-Sarina Road	Stabilisation	February	13.136
	Drainage	March	3.8

# NOTES