



Shire of
Narrogin

MINUTES

ROAD REFERENCE GROUP MEETING

28 April 2021

The Chief Executive Officer recommends the endorsement of these minutes at the next Meeting of the Road Reference Group

Signed:
(CEO)

Date 30 April 2021

These minutes were confirmed at the Road Reference Group Meeting held on 8 February 2022

Signed:
(Presiding Person at the meeting at which minutes were confirmed)

Acknowledgement of Noongar People

The Shire of Narrogin acknowledges the Noongar people as traditional custodians of this land and their continuing connection to land and community. We pay our respect to them, to their culture and to their Elders past and present.

Naatj ngiyan Birdiya Gnarojin kep unna nidja Noongar Moort ngaala maya nidja boodjera baarlap djoowak karlerl koolark. Ngalak niny ngullang karnan balang Bibolman baalap borong koora wer boorda.

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Please note that meetings may be recorded for minute taking purposes.

CONTENTS

Agenda Item	Page
1. OFFICIAL OPENING/ANNOUNCEMENT OF VISITORS	5
2. RECORD OF ATTENDANCE/APOLOGIES	5
3. DECLARATION OF INTEREST BY ELECTED MEMBERS AND COUNCIL EMPLOYEES IN MATTERS INCLUDED IN THE MEETING AGENDA	5
4. CONFIRMATION OF MINUTES OF PREVIOUS MEETINGS	5
5. MATTERS WHICH REQUIRE DECISIONS	6
5.1 REVISED 10 YEAR ROAD PROGRAM 2021/22-2030/31	6
5. NEW BUSINESS OF AN URGENT NATURE APPROVED BY THE PERSON PRESIDING OR BY DECISION OF THE MEETING	10
6. CLOSURE OF MEETING	10

ROAD REFERENCE GROUP MEETING

28 APRIL 2021

1. OFFICIAL OPENING/ANNOUNCEMENT OF VISITORS

The Presiding Member, Deputy Shire President T Wiese, declared the meeting open at 5:34pm.

2. RECORD OF ATTENDANCE/APOLOGIES

Reference Group Members (Voting)

Cr T Wiese – Deputy Shire President

Cr G Broad

Cr G Ballard

Reference Group Members (non Voting)

Cr M Fisher (Proxy)

Staff (Non Voting)

Mr T Evans – Executive Manager Technical & Rural Services

Mr J Warburton – Manager Operations

Mrs W Russell – Executive Support Officer – Minutes

3. DECLARATION OF INTEREST BY ELECTED MEMBERS AND COUNCIL EMPLOYEES IN MATTERS INCLUDED IN THE MEETING AGENDA

Name	Item No	Interest	Nature
Cr T Wiese	5.1	Financial Impartiality	Tarwonga Road Chomley Road
Cr G Ballard	5.1	Financial and Proximity	Whinbin Rock Road Wagin Wickepin Road

4. CONFIRMATION OF MINUTES OF PREVIOUS MEETINGS

OFFICERS' & REFERENCE GROUP RECOMMENDATION

Moved: Cr G Broad

Seconded: Cr G Ballard

That the minutes of the Road Reference Group Meeting held on 30 March 2021 be confirmed as an accurate record of the proceedings subject to the following correction:

- removal of page 30 and renumbering of pages 31 to 41.

CARRIED 3/0

5. MATTERS WHICH REQUIRE DECISIONS

5.1 REVISED 10 YEAR ROAD PROGRAM 2021/22-2030/31

File Reference	28.4.4
Disclosure of Interest	Neither the Author nor Authorising Officer have any Impartiality, Financial or Proximity Interests that requires disclosure.
Applicant	Shire of Narrogin
Previous Item Numbers	Item 10.2.1, 24 April 2019 Res 0419.009
Date	7 April 2021
Author	Torre Evans – Executive Manager Technical & Rural Services
Authorising Officer	Dale Stewart – Chief Executive Officer
Attachments	1. Ten Year Road Program 2021/22 – 2030/31

Summary

The Road Reference Group is requested to discuss and consider recommending the proposed revised Ten Year Road Program 2021/22-2030/31 to Council for adoption, as presented at Attachment 1. The proposed program is a planned direction for the preservation of the Shire of Narrogin's road network asset including sealed and unsealed roads. The program enables the Shire's budgeting process to continue into the future including the Shire's Long Term Financial Plan and Annual Budgeting.

Background

At Councils Ordinary Meeting 24 April 2019, Council adopted a Ten Year Road Program 2019 – 2029 that took into account the 2016 TALIS road asset management condition report and valuable local road condition knowledge of the Manager Operations. Prior to going to Council, the program was discussed with the Road Reference Group of the day.

The proposed revised Ten Year Road Program 2021/22 – 2030/31 is a continuation of the current that adds additional roads and brings certain roads forward due to successful grant funding, additional roads being added to the Wheatbelt South Regional Road Group (WBSRRG) 2030 Road List and efficiencies within the works crew.

Consultation

The proposed Ten Year Road Program was formulated by the Manager of Operations base on his vast local road condition experience and knowledge, and in consultation with the Executive Manager Technical & Rural Services (EMTRS). The proposed program is now being presented to the Road Reference Group for discussion prior to being recommended to Council for adoption.

At the Road Reference Group meeting held 30 March 2021, the Chair Person declared an Impartiality interest prior to discussion on Chomley Road (the declaration should have been that of Proximity and Financial). The Chairperson commented that the condition of the sealed section of Chomley Road was in poor condition and enquired where it was identified in the road program for maintenance. The

EMTRS identified that this sealed section of Chomley Road should be maintained to an acceptable safe standard as it was an existing Shire road asset. The EMTRS acknowledged that this section of Chomley Road was omitted from the program and thanked the Chair Person for this observation. The EMTRS advised the Group that the sealed section of Chomley Road would be included in the Revised Road Program and would be re – presented to the group prior to being recommended to Council.

The Road Reference Group had no further comment on the program and resolved as follows:

“That, the administration make amendments to the Revised Ten Year Road Program 2021/22 – 2030/31 to include the reseal of the eastern end of Chomley Road in the 23/24 program and that the amended report be presented to the Reference Group for consideration in April 2021.”

Statutory Environment

Local Governments are required to have Asset Management Plans in place pursuant Local Government Act 1995.

Policy Implications

Council Policy 12.11 Asset Management Plans relates.

Financial Implications

The proposed Revised Ten Year Road Program 2021/22 – 2030/31 will need to be considered in the context of the Shire’s Long Term Financial Plan and Annual Budgeting process.

Attachment 1 addresses the financial implications for the Revised Ten Year Road Program.

Strategic Implications

Shire of Narrogin Strategic Community Plan 2017-2027	
Outcome:	1.3 An effective well maintained transport network
Strategy:	1.3.1 Maintain and improve road network in line with resource capacity
Outcome:	3.4 A well maintained built environment
Strategy:	3.4.1 Improve and maintain built environment

Comment/Conclusion

The revised road program is presented to the Road Reference Group for consideration, discussion and finally recommendation to Council. The revised program is presented in the same format of that which it will supersede as seen in attachment 1.

The author thought it prudent to update the current road program so as to provide Council and staff with guidance to provide sustainable and responsible Budgeting processes i.e. Long Term and Annual, and give direction for staff to plan with future works programs to maintain and preserve this valuable and extensive asset.

The proposed road program allows the Shire to demonstrate its future road asset management plan to Grant Funding bodies both State and Federal i.e. Roads to Recovery (RTR) and Regional Road Group (RRG).

A brief overview of grant funding is as follows:

RRG funding

This is based on a one third – two thirds arrangement whereby Council must contribute one third of the cost of the nominated road project. Nominated road projects can only be on roads registered in the 2030 RRG list whereby these roads must meet a criteria to be eligible for RRG grant funding. The Shire of Narrogin currently is entitled to amalgamation funding for five years from 2018/19 and reverts back to single entity funding from 2023/24. Amalgamating Councils receive a maximum allocation of 100% of the average allocations that combined councils received three years immediately prior to the amalgamation or 75% of the combined maximum allocation, whichever is the greatest, for a period of five years.

RTR funding

This is administered by the Federal Government and supports the maintenance of the nation's local road infrastructure asset, which facilitates greater access for Australians and improved safety, economic and social outcomes. Under the Roads to Recovery Program, direct funding to local councils is distributed according to a formula based on population and road length set by the Local Government Grants Commissions in each state and the Northern Territory. Each Council's Roads to Recovery allocation is fixed for the life of the Program, which generally runs for a period of five years.

Gravel Road Re-sheeting

Due to the changing nature of gravel roads compared to a sealed road, an allocation of \$400,000 annually, rather than nominating a particular gravel road, is preferred. At a cost of around \$20,000 per kilometre to form up and re-sheet a gravel road, this equates to approximately 20 kms per annum which is conducive of the current adopted Ten Year Road Program. There are also other variables to consider here e.g. distance to transport gravel, vegetation and drainage requirements. Gravel roads put forward annually are roads considered high priority for that financial year.

Sealed Road Defect Stabilisation

The current adopted Ten Year Road Program identifies the need to conduct pavement stabilisation works throughout the sealed road network. An allocation of \$100,000 per annum has been adopted (since 2017) and has been continued into the Revised Ten Year Road Program to rectify any such sealed pavement defects that present. Due to the unpredictable nature of pavement failures, works are identified on an annual basis and are prioritised in order of severity and need. It is worth noting that this provision of \$100,000 for pavement stabilisation, has worked and on an annual basis has proved effective in providing financial confidence to make necessary repairs to unforeseen and known pavement failures.

Road Improvement Projects

When assessing the Shires road network for potential improvements it is worth considering a number of road improvement categories i.e. sealing of gravel roads, seal extensions to part sealed roads, widening of roads, reducing curves and blind spots, realigning cambers, major drainage upgrades and re-sheeting quartz rural roads with gravel etc.

Factors that were considered for selecting roads included:

- Traffic volumes

- Commodity transport use
- Maintenance costs – gravel vs seal
- Quality of trafficable road surface
- Road safety

The Shire has a number of rural roads remaining (approx. 100 kms) that were sheeted with quartz as opposed to gravel. Unfortunately quartz has proven to be problematic regarding the size of the aggregate used in the re-sheeting pavement, with some roads being up to 60 mm or greater in diameter with sharp edges. The sharp edges on the quartz aggregate have led to truck and car tyres being damaged with multiple complaints being received.

The practice of re-sheeting the rural road network using quartz ceased in 2016 following independent testing of the material where it failed to meet the Australian Road Research Board (ARRB) standards for road construction, (report previously supplied to the Road Reference Group).

From 2023/24 to 2030/31 within the Revised Road Program, Road Improvements Projects have been put forward as quartz rural roads being re-sheeted with gravel at \$100,000 per annual Budget that allows for approximately 4 kms to be completed using local contractor services. This also includes the purchase and pushing of local gravel using local contractors.

The \$100,000 identified from municipal funding for the conversion of quartz pavement to gravel does not include wages for Shire construction staff as did in past road improvement projects which have predominantly been for new sealing of gravel roads. Shire staff wages have been allocated to required maintenance activities such as rural vegetation control and drainage etc. It is acknowledged that Shire staff would be used on the roads to be re-sheeted from quartz to gravel to carry out any pruning of vegetation as required under the maintenance account.

Road Improvement Projects funded with municipal funds (predominantly from rates) will need to be considered within the annual Budgeting processes against all competing Community and Council requests and requirements to deliver a balanced Budget within a tight fiscal environment.

The Road Reference Group may wish to consider and discuss alternate road projects other than re-sheeting quartz pavement with gravel.

Points of Interest - Revised 10 Year Road Program

At the WBSRRG Technical Working Group meeting held 9 November 2020, the EMTRS put forward application to the representatives to include Whinbin Rock Road, the new section of Wanerie Road from Narrakine South Road to the Great Southern Hwy and Dongolocking Road for inclusion into the RRG 2030 Road List to attract RRG grant funding to construct and maintain these assets into the future rather than funding this with municipal funds. The Technical Group supported the application by the EMTRS at that meeting.

At the WBSRRG meeting held 12 March 2021, it was resolve by the voting delegates to accept the minutes of the WBSRRG Technical Group meeting thus endorsing the three mention roads as part of the RRG 2030 Road List.

The three roads were then referred by Main Roads WA to the State Road Funds to Local Government Advisory Committee (SAC) for final assessment. SAC endorsed all three roads on 16 April 2021.

Whinbin Rock Road funding is moved from municipal to partially funded under RRG Grant Funding in 2023/24 and is programmed to have the gravel pavement constructed and bitumen sealed with completion in 2025/26.

It is important to note that the proposed revised Ten Year Road Program is a plan based on current road conditions and can be reviewed and revised annually to take into account changing road conditions due to traffic movement, community needs, environmental factors such as extreme weather events, unexpected grant funding and financial availability or restraints.

Voting Requirements

Simple Majority

OFFICERS' AND COMMITTEES RECOMMENDATION

Moved: Cr G Ballard Seconded: Cr G Broad

That, the Road Reference Group support the EMTRS in recommending to Council the Revised Ten Year Road Program 2021/22 – 2030/31, as presented at Attachment 1.

CARRIED 3/0

5. NEW BUSINESS OF AN URGENT NATURE APPROVED BY THE PERSON PRESIDING OR BY DECISION OF THE MEETING

Nil.

6. CLOSURE OF MEETING

There being no further business to discuss, the Presiding Member declared the meeting closed at 5:54 pm.

TEN YEAR ROAD PROGRAM

2021/22 - 2030/31



Road Funding Summary				
	RRG	R2R	Muni	Annual Total
21/22	\$525,000.00	\$298,577.84	\$967,500.00	\$1,791,077.84
22/23	\$525,000.00	\$317,540.84	\$1,009,500.00	\$1,852,040.84
23/24	\$355,000.00	\$302,442.84	\$777,500.00	\$1,434,942.84
24/25	\$355,000.00	\$301,523.84	\$777,500.00	\$1,434,023.84
25/26	\$355,000.00	\$296,232.84	\$777,500.00	\$1,428,732.84
26/27	\$355,000.00	\$299,442.84	\$777,500.00	\$1,431,942.84
27/28	\$355,000.00	\$317,222.84	\$777,500.00	\$1,449,722.84
28/29	\$355,000.00	\$331,222.84	\$777,500.00	\$1,463,722.84
29/30	\$355,000.00	\$307,983.84	\$777,500.00	\$1,440,483.84
30/31	\$355,000.00	\$294,295.84	\$777,500.00	\$1,426,795.84
	<u>3,890,000.00</u>	<u>\$3,066,486.38</u>	<u>\$8,197,000.00</u>	<u>\$15,153,486.38</u>

Shire of Narrogin Proposed Ten Year Road Program 21/22

Roads to Recovery Funded Re-Seals

	Total Area M ²		Cost
Congelin Narrogin Road	8000	\$	28,000.00
Florence Avenue	1117	\$	3,910.00
Goldsmith Street	924	\$	3,235.00
Lavater Street	15857	\$	55,500.00
Narrogin Harrismith Road	11772	\$	41,201.65
Nomans Lake Siding Road	17143	\$	60,000.00
Reids Road	12857	\$	45,000.00
Sagar Street	1104	\$	3,865.00
Scadden Street	5621	\$	19,675.00
Tarwonga Road	9435	\$	33,021.00
Tuhoy Street	620	\$	2,170.00
Wald Street	857	\$	3,000.00

Total R2R	\$	298,577.65
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Regional Road Group Funded Projects

Extend Seal Wagin Wickepin Road	SLK 11.0 to 16.00	\$	365,000.00
Stabilise Narrogin Harrismith Road	SLK 25.8 to 27.5	\$	160,000.00

Total RRG	\$	525,000.00
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Municipal Funded Works

Annual Gravel Re-Sheeting		\$	400,000.00
Annual Pavement Stabilising		\$	100,000.00
Regional Road Group Contribution		\$	262,500.00
Construct and seal 1 km Narrogin Valley Road	SLK 4.93 to 5.93	\$	120,000.00
Construct and seal Quigley Street		\$	28,000.00
Construct and seal Chipper Street		\$	35,000.00
Construct and seal Leake Street		\$	22,000.00

Road Improvement Program

Total Muni	\$	967,500.00
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Grand Total 21/22	\$	1,791,077.65
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Shire of Narrogin Proposed Ten Year Road Program 22/23

Roads to Recovery Funded Re-Seals

	Total Area M²	Cost
Bottle Creek Place	2016	\$ 7,056.00
George Street	4212	\$ 14,742.00
Congelin Narrogin Road	8000	\$ 28,000.00
Highbury West Road	11429	\$ 40,000.00
Jersey Street	2857	\$ 10,000.00
Katta Road	17446	\$ 61,061.00
McCormick Way	1530	\$ 5,355.00
Narrogin Harrismith Road	11772	\$ 41,201.65
Tarwonga Road	9435	\$ 33,021.19
Newman Street	1080	\$ 3,780.00
Pitt Street	1200	\$ 4,200.00
Range Road	9286	\$ 32,500.00
Stewart Place	1140	\$ 3,990.00
Stewart Road	4104	\$ 14,364.00
Tanner Street	900	\$ 3,150.00
Wiese Road (Town)	4320	\$ 15,120.00
Chomley Road	14000	\$ 49,000.00

Total R2R	\$ 366,540.84
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Regional Road Group Funded Projects

Construct and Seal McKenzie Road	SLK 0.0 to 1.8	\$ 226,667.00
Stabilise Failures on Nomans Lake Siding Road		\$ 133,333.00
Stabilise Failures on Wanerie Road		\$ 165,000.00

Amalgamated Council RRG funding ends this year

Total RRG	\$ 525,000.00
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Municipal Funded Works

Annual Gravel Re-Sheeting 20 Km in total		\$ 400,000.00
Annual Pavement Stabilising		\$ 100,000.00
Regional Road Group Contribution		\$ 262,500.00
Road Improvement Program - Narrogin		
Valley Road Extend seal to Simmons Road	SLK 5.93 to 8.42	\$ 247,000.00

Total Muni	\$ 1,009,500.00
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Grand Total 22/23	\$ 1,901,040.84
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Shire of Narrogin Proposed Ten Year Road Program 23/24

Roads to Recovery Funded Re-Seals

	Total Area M²	Cost
Congelin Narrogin Road	8000	\$ 28,000.00
Tarwonga Road	9435	\$ 33,021.19
Narrogin Harrismith Road	11772	\$ 41,201.65
Boothe Street	2730	\$ 9,555.00
Callan Way	4350	\$ 15,225.00
Fox Street	7143	\$ 25,000.00
Narrakine South Road	17143	\$ 60,000.00
Simmons Road	25840	\$ 90,440.00

Total R2R	\$ 302,442.84
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Regional Road Group Funded Projects

Extend Seal on Whinbin Rock Road	SLK 12.0 to 15.5	\$ 355,000.00
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Total RRG	\$ 355,000.00
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Municipal Funded Works

Annual Gravel Re-Sheeting 20 Km in total	\$ 400,000.00
Annual Pavement Stabilising	\$ 100,000.00
Regional Road Group Contribution	\$ 177,500.00
Road Improvement Program - Re-sheet quartz with gravel on Armstrong Road 4km	\$ 100,000.00

Total Muni	\$ 777,500.00
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Grand Total 23/24	\$ 1,434,942.84
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** Whinbin Rock Road recently added to RRG 2035 List

Shire of Narrogin Proposed Ten Year Road Program 24/25

Roads to Recovery Funded Re-Seals

	Total Area M²	Cost
Congelin Narrogin Road	8000	\$ 28,000.00
Tarwonga Road	9435	\$ 33,021.19
Narrogin Harrismith Road	11772	\$ 41,201.65
Graham Road Industrial Area	7290	\$ 25,515.00
Lefroy Street	10814	\$ 37,850.00
Lewis Street	1260	\$ 4,410.00
Mokine Road	18876	\$ 66,066.00
Myers Place	1560	\$ 5,460.00
Narrakine South Road	17143	\$ 60,000.00

Total R2R	\$ 301,523.84
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Regional Road Group Funded Projects

Extend Seal on Whinbin Rock Road	SLK 15.5 to 19.0	\$ 355,000.00
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Total RRG	\$ 355,000.00
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Municipal Funded Works

Annual Gravel Re-Sheeting 20 Km in total	\$ 400,000.00
Annual Pavement Stabilising	\$ 100,000.00
Regional Road Group Contribution	\$ 177,500.00
Road Improvement Program - Resheet quartz with gravel on Lange Road 4km	\$ 100,000.00

Total Muni	\$ 777,500.00
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Grand Total 24/25	\$ 1,434,023.84
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Shire of Narrogin Proposed Ten Year Road Program 25/26

Roads to Recovery Funded Re-Seals

	Total Area M ²	Cost
Congelin Narrogin Road	8000	\$ 28,000.00
Tarwonga Road	9435	\$ 33,021.19
Narrogin Harrismith Road	11772	\$ 41,201.65
Dowset Street	569	\$ 1,990.00
Ensign Street	17321	\$ 60,625.00
Halo Street	720	\$ 2,520.00
Harbour Street	714	\$ 2,500.00
Harris Street	1344	\$ 4,705.00
Hive Street	730	\$ 2,555.00
James Street	1530	\$ 5,355.00
Lydeker Way	3074	\$ 10,760.00
Nomans Lake Siding	17143	\$ 60,000.00
Odgers	857	\$ 3,000.00
Wagin Wickepin Road	11429	\$ 40,000.00

Total R2R	\$ 296,232.84
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Regional Road Group Funded Projects

Extend Seal on Whinbin Rock Road	SLK 19.0 to 22.5	\$ 355,000.00
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Total RRG	\$ 355,000.00
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Municipal Funded Works

Annual Gravel Re-Sheeting 20 Km in total	\$ 400,000.00
Annual Pavement Stabilising	\$ 100,000.00
Regional Road Group Contribution	\$ 177,500.00
Road Improvement Program - Resheet quartz with gravel on Highbury West Road 4km	\$ 100,000.00

Total Muni	\$ 777,500.00
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Grand Total 25/26	\$ 1,428,732.84
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Shire of Narrogin Proposed Ten Year Road Program 26/27

Roads to Recovery Funded Re-Seals

	Total Area M²	Cost
Congelin Narrogin Road	8000	\$ 28,000.00
Tarwonga Road	9435	\$ 33,021.19
Narrogin Harrismith Road	11772	\$ 41,201.65
Boxsell Road	10000	\$ 35,000.00
Chipper Street	1560	\$ 5,460.00
Dongolocking Road	14000	\$ 49,000.00
Elliot Street	409	\$ 1,430.00
Exeter Street	630	\$ 2,205.00
Pethyerbridge Road	11179	\$ 39,125.00
Wagin Wickepin Road	11429	\$ 40,000.00
Whinbin Rock Road	7143	\$ 25,000.00

Total R2R	\$ 299,442.84
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Regional Road Group Funded Projects

Stabilise failures, upgrade drainage and re-seal Clayton Road (Town)	\$ 355,000.00
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Total RRG	\$ 355,000.00
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Municipal Funded Works

Annual Gravel Re-Sheeting 20 Km in total	\$ 400,000.00
Annual Pavement Stabilising	\$ 100,000.00
Regional Road Group Contribution	\$ 177,500.00
Road Improvement Program - Resheet quartz with gravel on Manaring Road 4km	\$ 100,000.00

Total Muni	\$ 777,500.00
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Grand Total 26/27	\$ 1,431,942.84
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Shire of Narrogin Proposed Ten Year Road Program 27/28

Roads to Recovery Funded Re-Seals

	Total Area M²	Cost
Congelin Narrogin Road	8000	\$ 28,000.00
Tarwonga Road	9435	\$ 33,021.19
Narrogin Harrismith Road	11772	\$ 41,201.65
Dongolocking Road	14000	\$ 49,000.00
Highbury West Road	11429	\$ 40,000.00
Moyses Road	7714	\$ 27,000.00
Narrogin Valley Road	14286	\$ 50,000.00
Whinbin Rock Road	14000	\$ 49,000.00

Total R2R	\$ 317,222.84
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Regional Road Group Funded Projects

Stabilise failures and asphalt Forrest Street	\$ 66,666.67
Stabilise failures, widen and seal Mokine Road	\$ 288,333.33

Total RRG	\$ 355,000.00
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Municipal Funded Works

Annual Gravel Re-Sheeting 20 Km in total	\$ 400,000.00
Annual Pavement Stabilising	\$ 100,000.00
Regional Road Group Contribution	\$ 177,500.00
Road Improvement Program - Resheet quartz with gravel on Manaring Road 4km	\$ 100,000.00

Total Muni	\$ 777,500.00
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Grand Total 27/28	\$ 1,449,722.84
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Shire of Narrogin Proposed Ten Year Road Program 28/29

Roads to Recovery Funded Re-Seals

	Total Area M²	Cost
Congelin Narrogin Road	8000	\$ 28,000.00
Tarwonga Road	9435	\$ 33,021.19
Narrogin Harrismith Road	11772	\$ 41,201.65
Dongolocking Road	14000	\$ 49,000.00
Narrogin Valley Road	14286	\$ 50,000.00
Stewart Road	4000	\$ 14,000.00
Whinbin Rock Road	14000	\$ 49,000.00
Wickepin Harrismith Road	19143	\$ 67,000.00

Total R2R	\$ 331,222.84
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Regional Road Group Funded Projects

Stabilise failures and re-seal Wandering Narrogin Road	\$ 177,500.00
Stabilise failures and seal Congelin Road	\$ 177,500.00

Total RRG	\$ 355,000.00
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Municipal Funded Works

Annual Gravel Re-Sheeting 20 Km in total	\$ 400,000.00
Annual Pavement Stabilising	\$ 100,000.00
Regional Road Group Contribution	\$ 177,500.00
Road Improvement Program - Resheet quartz with gravel on Rushy Pool Road 4km	\$ 100,000.00

Total Muni	\$ 777,500.00
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Grand Total 28/29	\$ 1,463,722.84
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Shire of Narrogin Proposed Ten Year Road Program 29/30

Roads to Recovery Funded Re-Seals

	Total Area M²	Cost
Congelin Narrogin Road	8000	\$ 28,000.00
Tarwonga Road	9435	\$ 33,021.19
Narrogin Harrismith Road	11772	\$ 41,201.65
Andrews Street	2565	\$ 8,978.00
Ashworth Cr	3007	\$ 10,525.00
Clark St	1940	\$ 6,790.00
Clough Pl	784	\$ 2,745.00
Floyed Street	2250	\$ 7,875.00
GoRoadon Street	5568	\$ 19,488.00
Hartoge Street	1817	\$ 6,360.00
Wandering Narrogin Road	21714	\$ 76,000.00
Wickepin Harrismith Road	19143	\$ 67,000.00

Total R2R	\$ 307,983.84
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Regional Road Group Funded Projects

Stabilise Failures, Upgrade Intersection and reseal Wanerie Road	\$ 355,000.00
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Total RRG	\$ 355,000.00
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Municipal Funded Works

Annual Gravel Re-Sheeting 20 Km in total	\$ 400,000.00
Annual Pavement Stabilising	\$ 100,000.00
Regional Road Group Contribution	\$ 177,500.00
Road Improvement Program - Resheet quartz with gravel on Taylor Road 4km	\$ 100,000.00

Total Muni	\$ 777,500.00
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Grand Total 29/30	\$ 1,440,483.84
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Shire of Narrogin Proposed Ten Year Road Program 30/31

Roads to Recovery Funded Re-Seals

	Total Area M²	Cost
Congelin Narrogin Road	8000	\$ 28,000.00
Tarwonga Road	9435	\$ 33,021.19
Narrogin Harrismith Road	11772	\$ 41,201.65
Dale Street	2089	\$ 7,310.00
Garfield Street	3321	\$ 11,623.00
Moore Street	2754	\$ 9,640.00
Wandering Narrogin Road	21714	\$ 76,000.00
Wanerie Road	25000	\$ 87,500.00

Total R2R	\$ 294,295.84
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Regional Road Group Funded Projects

Widen and seal Clayton Road	SLK 3.79 to 6.79	\$ 355,000.00
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Total RRG	\$ 355,000.00
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Municipal Funded Works

Annual Gravel Re-Sheeting 20 Km in total	\$ 400,000.00
Annual Pavement Stabilising	\$ 100,000.00
Regional Road Group Contribution	\$ 177,500.00
Road Improvement Program - Resheet quartz with gravel on Crooked Pool Road 4km	\$ 100,000.00

Total Muni	\$ 777,500.00
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Grand Total 30/31	\$ 1,426,795.84
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SHIRE OF NARROGIN PROPOSED MUNICIPAL ROAD IMPROVEMENT PROJECTS

Road Name	SLK Start	SLK End	Length	Current Surface	Proposed Pavement Width	Proposed Carriageway Width	Estimated Cost	Year
Dongolocking Road	8.00	10.98	2980	Unsealed	10m	7m	\$315,421	2020-21
Moss Street	0.00	0.61	610	Unsealed	10m	7m	\$85,562	
Earl Street South	0.93	1.06	130	Unsealed	10m	7m	\$29,201	
Quigley Street	0.14	0.36	220	Unsealed	10m	7m	\$27,306	
Chipper Street	0.07	0.25	180	Unsealed	10m	7m	\$34,426	
Leake Street	0.23	0.32	90	Unsealed	10m	7m	\$21,358	2021-22
Narrogin Valley Road	4.93	8.42	3490	Unsealed	10m	7m	\$367,419	2022-23
Total							\$880,693	