



**INFRASTRUCTURE
DIRECTORATE**

APPENDICES

Items: 12.3.1 – 12.3.5

**ORDINARY
COUNCIL MEETING**

To Be Held

Wednesday, 26th of May 2021

Commencing at 5.00pm

At

Shire of Dardanup

ADMINISTRATION CENTRE EATON

1 Council Drive - EATON

This document is available in alternative formats such as:

- ~ Large Print
- ~ Electronic Format [disk or emailed]
Upon request.

Nathan Ryder

From: Luke Botica
Sent: Tuesday, 20 April 2021 6:13 PM
To: Nathan Ryder
Subject: Fwd: Eaton Drive Proposed Intersection Treatments
Attachments: image001.jpg; image002.jpg; image003.jpg; image004.jpg; image005.png; image001.jpg; image002.jpg; image003.jpg; image004.jpg; eaton-dr-council-ave-roundabout-lou-v8-A1 1-500.pdf

Hi Nathan

See attached and below.

Regards
Luke

Luke Botica
Director Infrastructure
Shire of Dardanup

Begin forwarded message:

From: "PALANDRI Lou (PMD)" <lou.palandri@mainroads.wa.gov.au>
Date: 20 April 2021 at 10:28:42 am AWST
To: Luke Botica <Luke.Botica@dardanup.wa.gov.au>
Cc: "COPPEN Matthew (PMD/A)" <matthew.coppen@mainroads.wa.gov.au>
Subject: Eaton Drive Proposed Intersection Treatments

Luke,

Attached concept plan shows the alternative spiral treatment. Will obviously be subject to more detailed design if you decide to proceed with implementation.

Pedestrian crossing between Hands Avenue and new Council Drive would have to be configured as a staggered crossing similar to what is shown on the plan. Pedestrians would have to activate the signals separately for crossing of each carriageway. Again, all this would have to go through a Main Roads approval process which would include an assessment of the location and need for a signalised crossing.

Can't see how signals at the new Council Drive intersection could be accommodated. Main issue is that it would be difficult to provide a right turn lane long enough on Eaton Drive to avoid the problem of right turning vehicles spilling into the through lane. Can also see some other potential issues, but you could investigate this further to absolutely prove the point.

Happy to discuss.

Regards

Lou

(Appendix ORD: 12.3.1A)

From: Luke Botica <Luke.Botica@dardanup.wa.gov.au>
Sent: Monday, 19 April 2021 4:38 PM
To: PALANDRI Lou (PMD) <lou.palandri@mainroads.wa.gov.au>
Cc: Nathan Ryder <Nathan.Ryder@dardanup.wa.gov.au>
Subject: RE: CM: Eaton Drive Proposed Intersection Treatments

CAUTION: This email originated from outside of Main Roads. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Hi Lou

Thanks for your feedback and help on this matter.

The spiral option is our preference if the roundabout has to stay. It would be great if you could provide a sketch of it if it is not too much trouble.

With regards to the roundabout staying, would it be possible to include a signalised pedestrian crossing for the pedestrian crossing shown on Eaton Drive between Hands Avenue and the future Council Drive intersections? Could these signals be combined with the future Council Drive intersection, thus enabling further manoeuvres at this intersection? Do you have any feedback regarding this idea, as I am expecting this question from the Shire's Councillors and probably the community as well when we start consulting with them?

Thanks
Luke

Luke Botica

Director Infrastructure

Shire of Dardanup | 1 Council Drive | PO Box 7016 | Eaton WA 6232
p: 08 9724 0367 | m: 0427 447 050 | e: Luke.Botica@dardanup.wa.gov.au

From: PALANDRI Lou (PMD) <lou.palandri@mainroads.wa.gov.au>
Sent: Monday, 19 April 2021 4:14 PM
To: Luke Botica <Luke.Botica@dardanup.wa.gov.au>
Subject: FW: CM: Eaton Drive Proposed Intersection Treatments

Luke,

Forgot to look more closely at the other spiral option for the Council Drive / Eaton Drive roundabout that you and Nathan mentioned when we last met. This option which would maintain the current lane configuration on the Council Drive approach would be easier to implement and probably work better than the layout that we have provided.

Can get the plan adjusted if you need it.

Regards

Lou



FUTURE COUNCIL DRIVE INTERSECTION
(INDICATIVE ONLY)

EATON DRIVE

Nathan Ryder

From: Luke Botica
Sent: Monday, 19 April 2021 11:57 AM
To: Nathan Ryder
Subject: FW: Eaton Drive Proposed Intersection Treatments
Attachments: Signalised Pedestrian Crossing - Marmion Avenue.docx; Eaton-Dr-Council-Ave-4-way-TCS-lou-v3-A1 1-500.pdf; eaton-dr-council-ave-roundabout-lou-v7-A1 1-500.pdf

Hi Nathan

Feedback from Main Roads regarding the various intersection treatments.

Thanks
Luke

Luke Botica

Director Infrastructure

Shire of Dardanup | 1 Council Drive | PO Box 7016 | Eaton WA 6232
p: 08 9724 0367 | m: 0427 447 050 | e: Luke.Botica@dardanup.wa.gov.au



From: PALANDRI Lou (PMD) <lou.palandri@mainroads.wa.gov.au>
Sent: Friday, 16 April 2021 2:07 PM
To: Luke Botica <Luke.Botica@dardanup.wa.gov.au>
Cc: COPPEN Matthew (PMD/A) <matthew.coppen@mainroads.wa.gov.au>; BARNESLEY Robert (DSWO) <robert.barnesley@mainroads.wa.gov.au>
Subject: Eaton Drive Proposed Intersection Treatments

Luke,

Comments on the proposed intersection treatments along Eaton Drive are as follows.

Council Drive / Hamilton Road Intersection

Conversion of existing roundabout to traffic signals is unlikely to be approved by Main Roads, given Main Roads position that roundabouts are preferred over traffic signalisation. In order to obtain Main Roads approval the applicant is required to demonstrate that a roundabout is not a suitable form of control, which would be difficult in this case given that the roundabout exists and appears to be operating well.

As we understand it, the reasons for Council pursuing the conversion to traffic signals is to provide for safer pedestrian crossing of Eaton Drive and address the problem that drivers are having turning right out of Council Drive and then left into Hands Avenue. The attached concept plan show how the existing road geometry could be modified to address both these issues without converting the intersection to signals.

(Appendix ORD: 12.3.1A)

Note that it may also be possible to have the pedestrian crossing of Eaton Drive shown on the plan as a signalised crossing. Attached is a photo of a signalised pedestrian crossing recently installed near a major roundabout on Marmion Avenue in Kinross which shows how the staggered crossing shown on the plan could be signalised.

As part of our assessment of the two options for this intersection, we also prepared a concept layout for the signalisation (copy attached). Of note, is that the widening of Council Drive to develop the required lanes on the approach to Council Drive would impact on the existing shopping centre car park.

Hands Avenue Intersection

Restricting the Hands Avenue intersection to Left-in / Left-out could result in a high number of U-turns at the Frost Way intersection, which would be an undesirable outcome. If the roundabout at Council Drive / Hamilton Road intersection is retained, a better option may be to also allow the right turn out of Hands Avenue as shown by the attached concept plan. Features of the concept plan are as follows.

- Moving the Hands Avenue intersection further from the intersection will provide significantly better intersection sight distance to northbound vehicles.
- The Eaton Drive median has been widened to allow for a staged crossing of Eaton Drive so that drivers only have to deal with one direction at the time.
- The intersection provides for semi-trailers which are "as of right" vehicles that should, but would struggle to fit through the existing intersection.
- Southbound vehicles on Eaton Drive will be able to get to Hands Avenue by U-turning at the Council Drive / Hamilton Road roundabout.

New Council Drive Intersection

A new intersection at the proposed location is not desirable because of the closeness to other intersections. If it is allowed, then it will need to be limited to Left-in / Left-out. U-turning at Frost Way intersection could be an issue.

Eaton Drive / Forrest Highway Intersection

No issue with proposed double right turn from Eaton Drive. As you are aware, Main Roads already has developed a plan showing how this can be developed.

Blue Wren Drive and Lavender Way Intersections

No issue with the proposed roundabout at Blue Wren Drive intersection. If Lavender Way intersection is restricted to Left-in only, then this will reduce the priority from a timing perspective for the roundabout to be constructed.

Restricting Lavender Way to Left-in only will direct more traffic to the Millard Street / Lofthouse Street intersection and the proposal for a roundabout at this intersection is therefore supported.

Lofthouse Avenue Intersection

Traffic signals would appear to be the only practical way of achieving additional control at this intersection because of the site constraints. These signals would need to be linked to the signals at Recreation Drive during periods of peak flow.

(Appendix ORD: 12.3.1A)

As previously advised, the double right turn at the Eaton Drive / Forrest Highway intersection is required to improve the lane utilisation on the southbound approach on Eaton Drive, noting that many drivers are currently using the median lane because of the difficulty of changing lanes before they get to the Forrest Highway. It is therefore important that the Lofthouse Avenue traffic signals not be implemented before the double right at the Forrest Highway traffic signals.

Glen Huon Boulevard Intersection

This site is less constrained than the Lofthouse Avenue intersection and our preliminary investigations indicate that a roundabout may be feasible. In order to obtain Main Roads approval for traffic signals, you will need to first demonstrate that a roundabout is unsuitable. For details refer to Main Roads Guidelines for the Selection of Intersection Control (Roundabouts and Traffic Signals).

Peninsula Lakes Drive Intersection

Traffic signals would appear to be the only practical way of achieving additional control at this intersection because of the site constraints.

New Council Drive / Recreation Drive Intersection

The proposed connection of the New Council Drive to Recreation Drive creates a short stagger to Cormorant Entrance. This is a poor outcome, as it will effectively operate as a four-way intersection and make it difficult to upgrade to a roundabout, which would be a logical treatment if this ever became a black spot. If this can not be changed, then the closure or partial closure of Cormorant Entrance should be considered.

I hope that you find the above advice useful and please do not hesitate to contact Matt Coppen or myself if you require any further assistance.

Regards

Lou Palandri BEng, MIE(Aust), CPEng

PROJECT MANAGER DEVELOPMENT



Telephone: (08) 97245600 Mobile: 0419904090

From: Luke Botica <Luke.Botica@dardanup.wa.gov.au>

Sent: Thursday, 25 March 2021 11:18 AM

To: PALANDRI Lou (On Leave) <lou.palandri@mainroads.wa.gov.au>; COPPEN Matthew (PMD/A) <matthew.coppen@mainroads.wa.gov.au>

Subject: Eaton Drive Proposed Intersection Treatments

Hi Lou and Matthew

I am just following up on any feedback you have regarding the proposed intersection treatments along Eaton Drive.

We are preparing to commence public consultation in April. We are not able to start this process until we have MRWA support on the proposed intersections (as per Council resolution on the matter).

Please let me know if you wish to discuss it further. Nathan and I will be at your offices for a BORR meeting tomorrow morning if you need to catch up with us.

Thanks for your help on this project.

Kind regards

Luke

Luke Botica

Director Infrastructure

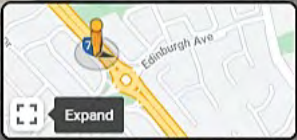
Shire of Dardanup | 1 Council Drive | PO Box 7016 | Eaton WA 6232
p: 08 9724 0367 | m: 0427 447 050 | e: Luke.Botica@dardanup.wa.gov.au



“This message contains privileged and confidential information intended only for the use of the addressee or entity named above. Use of this information beyond this intended use is unauthorised”

(Appendix ORD: 12.3.1A)

1511 Marmion Ave
Burns Beach, Western Australia
Google
Street View



Google

(Appendix ORD: 12.3.1A)

https://mrgisportal.mrwa.wa.gov.au/portal/apps/webappviewer/index.html?id=f6fafcace9f64a058e201e164c1617c6

Search... Convert Select

mainroads Western Australia ImageNow configured using Portal for ArcGIS

Operational Layers

- Road Network SLK Points - State Roads
- Road Network SLK Points - Local & Other Roads
- Cadastre (Land Parcels)
- Land Tenure (Property Ownership)
- State Road Network
- Local and Other Roads
- Aerometrex Imagery (Most Recent) Dates
- Aerometrex Imagery (Most Recent)
- Skyview Imagery

marmion ave

Address, Place, Intersection
Marmion, Perth, Western Australia
Marmion, Perth, Western Australia

Search result
Marmion, Perth, Western Australia
[Show more results](#)
[Zoom to](#)

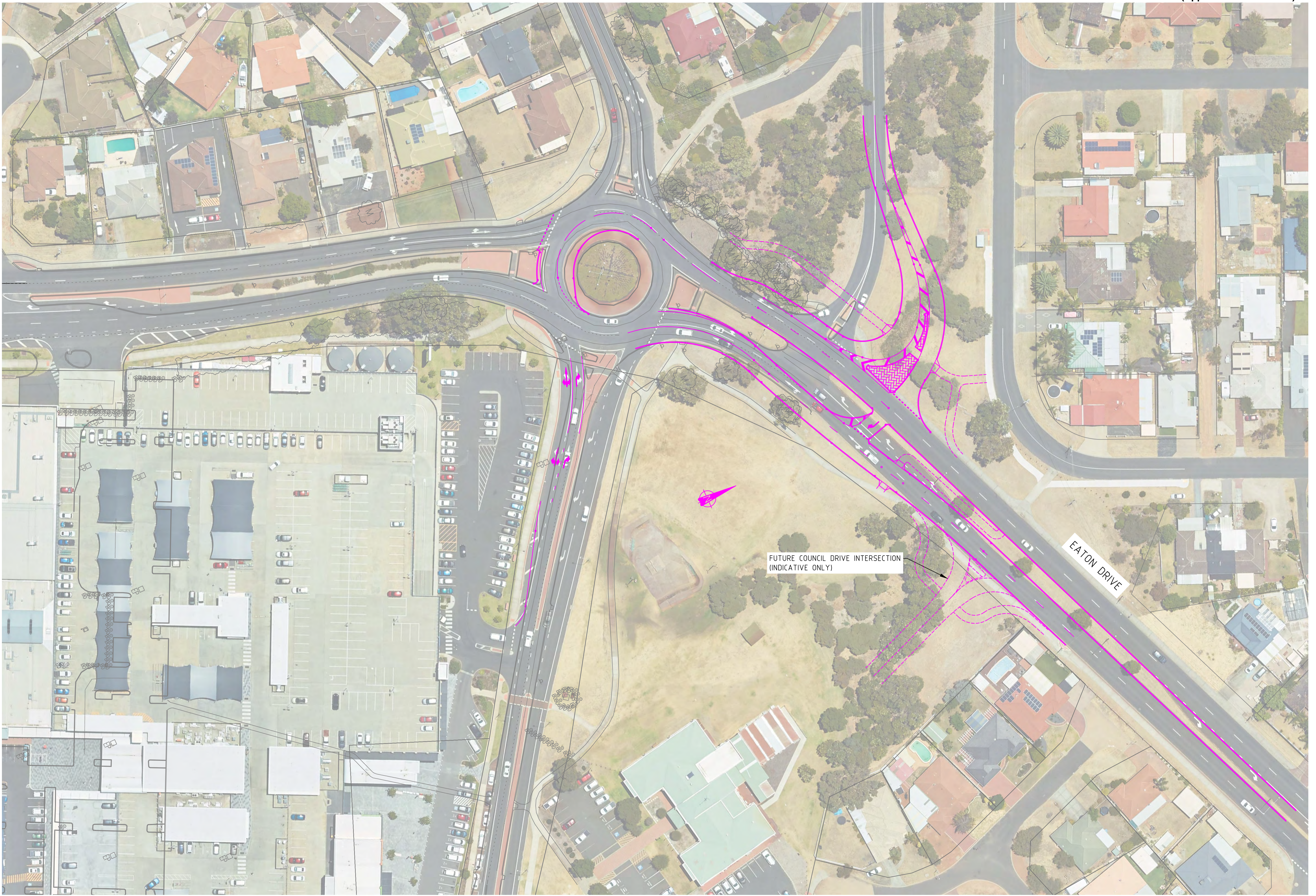
Measurement

Measurement Result

-31.843138 115.738350 Degrees

11:27 AM
14/04/2021





(Appendix ORD: 12.3.1B)

RISK ASSESSMENT TOOL									
OVERALL RISK EVENT: Changes to Strategic Intersection Treatments on Eaton Drive RISK THEME PROFILE: 6 - Engagement Practices									
RISK ASSESSMENT CONTEXT: Project									
CONSEQUENCE CATEGORY	RISK EVENT	PRIOR TO TREATMENT OR CONTROL			RISK ACTION PLAN (Treatment or controls proposed)	AFTER TREATMENT OR CONTROL			RESIDUAL RISK RATING
		CONSEQUENCE	LIKELIHOOD	INHERENT RISK RATING		CONSEQUENCE	LIKELIHOOD	RESIDUAL RISK RATING	
HEALTH	No risk event identified for this category.	Not Required - No Risk Identified	N/A	N/A	Not required.	Not required.	Not required.	Not required.	Not required.
FINANCIAL IMPACT	The loss of external funding should the project not continue.	Not Required - No Risk Identified	N/A	N/A	Not required.	Not required.	Not required.	Not required.	Not required.
SERVICE INTERRUPTION	No risk event identified for this category.	Not Required - No Risk Identified	N/A	N/A	Not required.	Not required.	Not required.	Not required.	Not required.
LEGAL AND COMPLIANCE	The potential of legal action against Council for not mitigating the risk accidents Not mitigating risk of accidents and poor communication and community consultation.	Moderate (3)	Unlikely (2)	Moderate (5 - 11)	Develop appropriate designs to mitigate the risk of accidents.	Minor (2)	Unlikely (2)	Low (1 - 4)	
REPUTATIONAL	No risk event identified for this category.	Moderate (3)	Possible (3)	High (12 - 19)	Develop an appropriate project delivery framework to mitigate the risk	Moderate (3)	Possible (3)	Moderate (5 - 11)	
ENVIRONMENT	No risk event identified for this category.	Not Required - No Risk Identified	N/A	N/A	Not required.	Not required.	Not required.	Not required.	Not required.

RISK ASSESSMENT TOOL

OVERALL RISK EVENT: Regional Road Safety Program – Local Government Roads

RISK THEME PROFILE:

1 - Asset Sustainability Practices

RISK ASSESSMENT CONTEXT: Operational

CONSEQUENCE CATEGORY	RISK EVENT	PRIOR TO TREATMENT OR CONTROL			RISK ACTION PLAN (Treatment or controls proposed)	AFTER TREATMENT OR CONTROL		
		CONSEQUENCE	LIKELIHOOD	INHERENT RISK RATING		CONSEQUENCE	LIKELIHOOD	RESIDUAL RISK RATING
HEALTH	Not undertaking treatments at these locations may result in further accidents.	Catastrophic (5)	Possible (3)	High (12 - 19)	Construct proposed treatments in compliance with Federal and State Blackspot Programs & Regional Road Group program.	Major (4)	Unlikely (2)	Moderate (5 - 11)
FINANCIAL IMPACT	Risk that assets are not upgraded or created to meet demand.	Moderate (3)	Possible (3)	Moderate (5 - 11)	Not required.	Not required.	Not required.	Not required.
SERVICE INTERRUPTION	No risk event identified for this category.	Not Required - No Risk Identified	N/A	N/A	Not required.	Not required.	Not required.	Not required.
LEGAL AND COMPLIANCE	No risk event identified for this category.	Not Required - No Risk Identified	N/A	N/A	Not required.	Not required.	Not required.	Not required.
REPUTATIONAL	Council may receive negative publicity for not addressing accidents which are eligible for RRSP funding.	Minor (2)	Likely (4)	Moderate (5 - 11)	Not required.	Not required.	Not required.	Not required.
ENVIRONMENT	No risk event identified for this category.	Not Required - No Risk Identified	N/A	N/A	Not required.	Not required.	Not required.	Not required.

RISK ASSESSMENT TOOL									
OVERALL RISK EVENT: Dardanup Church Access Road – Proposed Road Upgrade RISK THEME PROFILE: 1 - Asset Sustainability Practices 3 - Failure to Fulfil Compliance Requirements (Statutory, Regulatory)									
RISK ASSESSMENT CONTEXT: Project									
CONSEQUENCE CATEGORY	RISK EVENT	PRIOR TO TREATMENT OR CONTROL			RISK ACTION PLAN (Treatment or controls proposed)	AFTER TREATMENT OR CONTROL			RESIDUAL RISK RATING
		CONSEQUENCE	LIKELIHOOD	INHERENT RISK RATING		CONSEQUENCE	LIKELIHOOD	RESIDUAL RISK RATING	
HEALTH	No risk event identified for this category.	Not Required - No Risk Identified	N/A	N/A	Not required.	Not required.	Not required.	Not required.	Not required.
FINANCIAL IMPACT	Works are unbudgeted and may impact on other capital works programs.	Minor (2)	Possible (3)	Moderate (5 - 11)	Not required.	Not required.	Not required.	Not required.	Not required.
SERVICE INTERRUPTION	No risk event identified for this category.	Not Required - No Risk Identified	N/A	N/A	Not required.	Not required.	Not required.	Not required.	Not required.
LEGAL AND COMPLIANCE	Failure to seek Council approval for unbudgeted expenditure in accordance with the Local Govt Act 1995.	Moderate (3)	Unlikely (2)	Moderate (5 - 11)	Not required.	Not required.	Not required.	Not required.	Not required.
REPUTATIONAL	Road quality does not meet the expectation of the adjoining property owners.	Moderate (3)	Unlikely (2)	Moderate (5 - 11)	Not required	Not required.	Not required.	Not required.	Not required.
REPUTATIONAL	Failure to seek Council approval for unbudgeted expenditure could be seen in a negative light by the community.	Moderate (3)	Unlikely (2)	Moderate (5 - 11)	Not required	Not required.	Not required.	Not required.	Not required.
ENVIRONMENT	No risk event identified for this category.	Not Required - No Risk Identified	N/A	N/A	Not required.	Not required.	Not required.	Not required.	Not required.

KEY OF PROPOSED LANDSCAPE WORKS

EXISTING FEATURES

- A Toilets
- B Access driveway
- C Informal car parking
- D Informal canoe launching area
- E Popular fishing area
- F Popular dog swim beach
- G Services - covers (maintain access)
- H Concrete path from car park to toilets
- J Maintenance vehicle access point
- K Bore pump / irrigation controls
- L Flood lights near toilets
- OS Open space area - reticulated turf

STAGE 1 - RECOMMENDED WORKS 2020-21 (subject to funding)

- 1 Proposed iron filtration unit and enclosure
- 2 Proposed cement stabilised limestone path to link bridge to existing path (possibly seal in future with universally accessible material) with possible heavy logs along car park side of path to restrict vehicle access (suggest to replace logs in future with bollards)
- 3 Proposed shade shelter with accessible picnic setting
- 4 Proposed link path from toilets to river side path via gazebo to link with River Heritage Trail project (due to be constructed in 2019-20)
- 5 Proposed low square multiuse seating platforms
- 6 Proposed double bin enclosures
- 7 Proposed park welcome signage and possible code of shared use (2 signs near car park in main part of reserve, 1 sign at Scouts end)
- 8 Proposed removal of existing U-bar in path
- 9 Proposed seat adjacent path, near popular dog swim beach
- 10 Proposed renewal / upgrade of reserve lighting, as required
- 11 Make 'dog swim beach' safer by removing submerged rocks
- 12 Proposed new tree planting - suggest *Agonis flexuosa* (WA Peppermint)
- 13 Proposed installation of nesting boxes for native micro-bats (locate on site)
- 14 Retain and refurbish existing memorial seat; suggest relocating in future onto 'future possible new river platform' (as identified in item 16 below)

General notes:
 Recommended natural look and feel wherever possible, including timber-look materials and earthy colours
 Proposed retention of stumps and logs for dog play features and for habitat

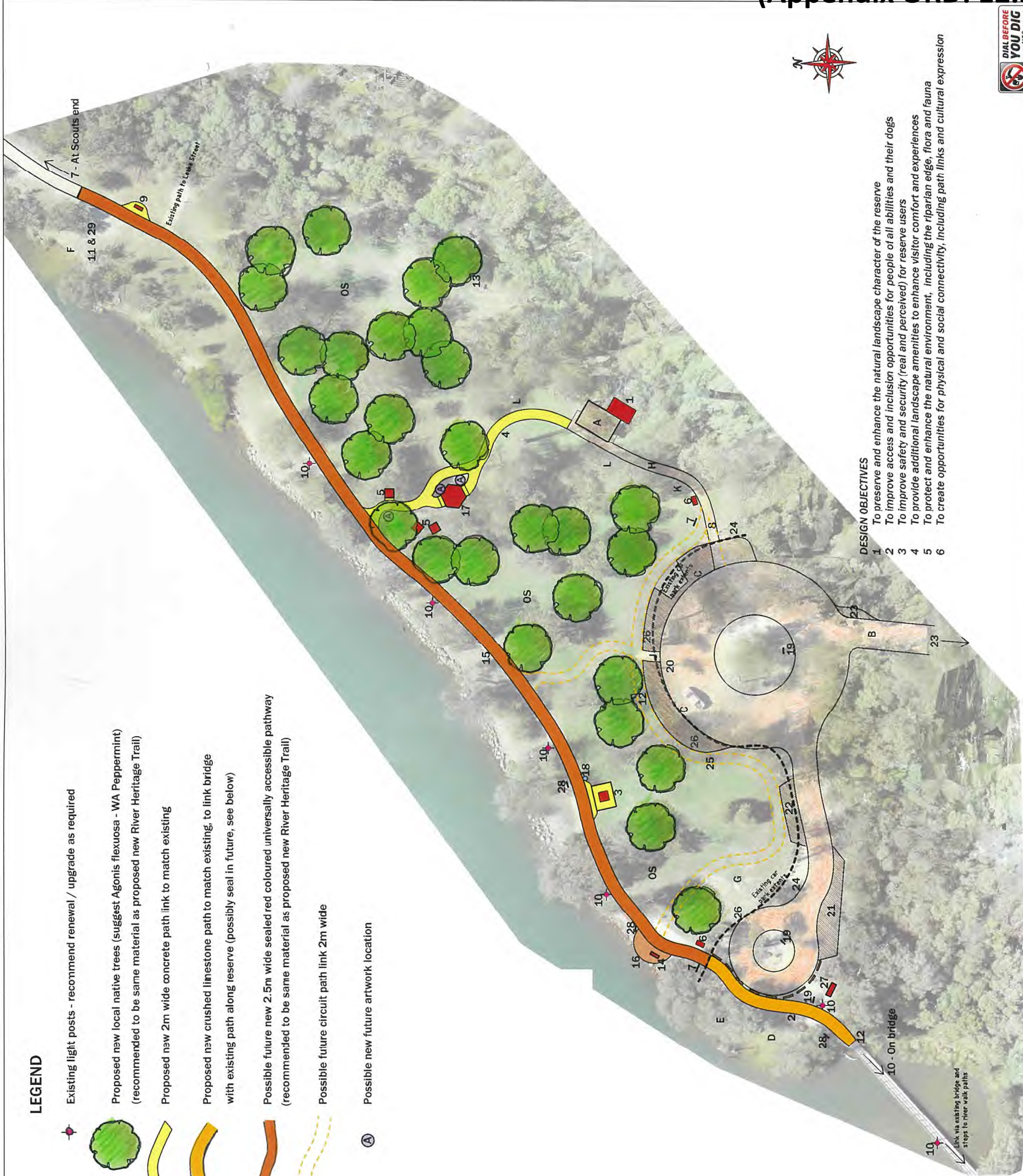
FUTURE POSSIBLE WORKS (subject to funding)

- 15 Possible new 2.5m wide universally accessible path surfacing from bridge to northern extent of reticulated turf
- 16 Possible new river fishing platform - suggest a leaf shaped fixed deck
- 17 Possible renewal of existing gazebo and new accessible ramps
- 18 Possible drink fountain with dog bowl
- 19 Possible additional reserve signage including directional / informational
- 20 Possible upgrade to car parking - recommend natural look 'earth coloured' surfacing (subject to detailed design)
- 21 Possible future parking area for trailers (work around existing trees - retain)
- 22 Possible future mobile trailer bay (work around existing trees - retain)
- 23 Possible modification to access driveway entrance and bottom end, to create two vehicle pull-over bays for safer vehicle access and egress
- 24 Possible new maintenance access points, with removable bollards
- 25 Possible future path circuit linking toilets with proposed new river platform
- 26 Possible new vehicle exclusion bollards around car park (e.g. composite material) to replace existing bollards, limestone blocks and temporary logs
- 27 Possible future bicycle parking
- 28 Possible interpretive signage - to tie in with upcoming River Heritage Trail project (2019-20)
- 29 Possible future refurbishment of steps at 'dog swim beach'

Recommend future environmental works including bushland weed removal and river bank erosion mitigation works (subject to funding)
 Possible future security camera - suggest on hinged pole and with sensor light, in most suitable location with view to car park and toilets
 Possible additional dog waste bag dispensers, if required
 Possible opportunities for 'art in the park' - e.g. dog themed / native fauna
 Possible future improvements near the Scout Hall including to the river platform and the access way, plus a new retaining wall adjacent the path

LEGEND

- Existing light posts - recommend renewal / upgrade as required
- Proposed new local native trees (suggest *Agonis flexuosa* - WA Peppermint) (recommended to be same material as proposed new River Heritage Trail)
- Proposed new 2m wide concrete path link to match existing
- Proposed new crushed limestone path to match existing, to link bridge with existing path along reserve (possibly seal in future, see below)
- Possible future new 2.5m wide sealed red coloured universally accessible pathway (recommended to be same material as proposed new River Heritage Trail)
- Possible future circuit path link 2m wide
- Possible new future artwork location



DESIGN OBJECTIVES

- 1 To preserve and enhance the natural landscape character of the reserve
- 2 To improve access and inclusion opportunities for people of all abilities and their dogs
- 3 To improve safety and security (real and perceived) for reserve users
- 4 To provide additional landscape amenities to enhance visitor comfort and experiences
- 5 To protect and enhance the natural environment, including the riparian edge, flora and fauna
- 6 To create opportunities for physical and social connectivity, including path links and cultural expression

AMENDMENT DESCRIPTION	BY	DATE	APPR

DRAWING TITLE		WATSON RESERVE PRATT ROAD, EATON	
DRAWING NO		R25417-18-600-1-A	
YEAR		2020	
SHEET		4	
REVISION			
DATE			
GRID SYSTEM			

Shire of Dardanup
 Administration Centre Eaton
 P.O. Box 7017, 1 Council Drive
 Eaton Western Australia 6232
 Telephone 08 9724 0000
 Facsimile 08 9724 0001
 Online www.dardanup.wa.gov.au
 ABN 57 326 629 653



(Appendix ORD: 12.3.4B)

Watson Reserve Concept Design – Submission Table March 2019 (updated May 2020)

All comments and feedback received during the public consultation period are summarised in the table below. Full names recorded on the original draft submission table in 2019 have been abbreviated to a title and initial to protect respondents' privacy.

Respondent	Respondent Comment	Officer Comment
Community members:		
1. Mr G.	<p>I regularly use Watson Park Reserve for my dog. I like it the way it is and only really needs a few minor things that look like they're going to happen anyway.</p> <p>The only other thing I suggest is another gazebo at the bridge end of the grassed area. It'd be great especially in winter time.</p> <p>Oh and maybe a few more benches to sit on along the side of the river.</p>	<p>Noted.</p> <p>Additional shelter has been proposed for near the bridge end of the reserve.</p> <p>Additional seating has been proposed in the reserve and along the path.</p>
2. Ms G.	<p>I have perused the draft concept plan for Watsons Reserve and have a few queries and suggestions, which I will list below.</p> <p>Regarding 7 (&19) Signage - what will "shared "use" statement be? Will it reference "leash free area" and the need for dog owners to CONTROL their dogs?</p> <p>I regularly walk the trails along the Collie River and find that many dog owners are apparently oblivious to their dogs' whereabouts and actions, and most often do NOT call their dogs away from certain situations.</p> <p>Will there be upgraded signage at the top of the driveway? Will it reference the shared use driveway, can it have a 'speed limit'?</p> <p>And can dog exercise sign also state that owners MUST still control their dogs? Many other parks in the region do have signs stating this.</p> <p>12. (not numbered) Tree planting - Why is the proposal for</p>	<p>Any proposed signage relating to the reserve's use as an off leash dog exercise area will aim to be 'friendly' in style and reinforce the requirement for dog owners to be in control of their dogs at all times, in accordance with the relevant Local Laws.</p> <p>NB: Response to submitter's questions sent 6/3/2019</p> <p>Noted.</p> <p>Upgraded signage can be considered for the top of the driveway. This – including the request for mention of a speed limit – will be raised with the engineering design team who look after the Shire's roads.</p> <p>Yes, this is intended.</p> <p>Agonis flexuosa has been nominated as a focus tree species</p>

(Appendix ORD: 12.3.4B)

Respondent	Respondent Comment	Officer Comment
	<p>Dog poo bags - Almost pointless having the dispensers when very often there are NO bags in them. Who is responsible for refilling these? Weekends from Friday afternoons often have large numbers of walkers and fishers with dogs, and empty poo bag dispensers. Hard enough to get some people to pick up after their dogs, but when there are no bags, then much poo is left for people to step in.</p>	<p>The Shire's Parks and Environment team who are responsible for the replenishment of dog waste bags will monitor the supply of bags and top up as required.</p>
3.	<p>Ms F. First I hope no trees are going to be removed at all for this work to be done along the river flats. Their age and size are beautiful. It looks like the car park is planted on the peppermint tree alongside the existing path. Don't take this out! Second, where is the board walk in the design. It is an important part of this area that needs to remain as it is used often.</p>	<p>It is not proposed to remove any existing trees unless there are any identified down the track to be hazardous to public safety. The car parking shown on the plan is indicative only and shown as 'subject to detailed design' – through which every effort will be made to work around existing healthy trees, ensuring that they are retained and protected. A brief note to this effect can be included on the revised plan. The advertised draft plan focused primarily on the main open space area of Watson Reserve which is why the boardwalks did not appear on the original draft plan. The plan can be amended to show the boardwalks. They are valued by many reserve users and an important part of the pathway access system through the reserve so it is intended for them to be retained and improved as required and as funds allow.</p>
4.	<p>Ms R. The draft plan looks really good although I am still concerned about the addition of a "good shade shelter with accessible picnic setting" as this apparently has to be a shared-use area. I am hoping that people who do not have a dog will prefer to use the Foreshore park..... although I think the shade shelter and picnic setting may encourage people to go to Watson's Reserve for that reason. I say this because having spoken to a number of regular dog owners who use the park, people without dogs can sometimes be very confronting.</p>	<p>The proposal for a new picnic shelter and setting near the popular fishing spot and proposed river platform may help to provide an 'off the ground' picnic and general seating opportunity, as it is understood from comments received that misunderstandings can occur when dogs rush over and jump on people who might be sitting on the ground having a picnic. A raised table may help to reduce the incidence of such a situation occurring. The proposed picnic shelter has been intentionally located at the other side of the park to where the dog exercise group generally tends to gather, to</p>

(Appendix ORD: 12.3.4B)

Respondent	Respondent Comment	Officer Comment
	<p>only Peppermint (Agonis) trees. The area has a very diverse number of endemic trees, and already has an abundance of Peppys. It would be preferable to have a more diverse range of trees including Acacias, Casuarinas, Banksias, Acers & some smaller species Eucalypts. I am certain the Leschenault Native Nursery can help with the choices, and a diverse range of trees will bring a diverse range of birds and insects to pollinate the various flowers they will produce. Please retain all current trees.</p>	<p>in this reserve in order to create a more connected canopy as refuge (for habitat and food) for the Western Ringtail Possum which has been found in this reserve. This species is listed as Critically Endangered fauna under the Biodiversity Conservation Act 2016 which has informed the Shire's design including tree species selection. Acer would not be considered for this Reserve as the focus in this location is for local native trees only. Other local native species could be considered.</p>
	<p>23 Access Driveway - Why is there only 'future proposal' regarding the driveway? This is a dual use driveway with many walkers & cyclists also accessing Watsons Reserve via the driveway. What are the 'shared use' rules for the existing driveway? Is it "might has right", which seems to be the case, as I have yet to meet up with a driver willing to wait mere seconds for any walker (with or without dog/s), or cyclists. There is very little room to stand aside for an often fast moving vehicle/s. The driveway needs work and widening now, not in future. As the driveway has a bend in it, the vision line is poor & it can be difficult to see if there is a vehicle oncoming. Very many times I have watched a vehicle reversing back to either top or bottom of driveway.</p>	<p>This is noted as a future proposal since any significant work on the driveway would be subject to feasibility (with a steep drop off on either side into existing wetlands, with significant earthworks and potential wetland environmental impacts) and to funding. This can also be raised with the Shire's road engineering team. There are not currently any advertised rules posted on driveway signage however this can be considered.</p>
	<p>When will the bridge be upgraded? I spoke with a gentleman from the Shire last year when I came across him measuring the bridge and pillars. He said that the wood was disintegrating and the Shire was planning to upgrade it to make it safer.</p>	<p>Upgrading the bridge can be included in the amended master plan; this will be subject to budget and the timing subject to scheduling of works in the Shire's ten year asset management plans.</p>
	<p>Sprinklers - these are currently doing more damage than good, as they miss huge patches and dig ruts in the grass and pathway in several areas and cause erosion. The current reticulation system is inefficient.</p>	<p>Noted. A reticulation system upgrade is being proposed in conjunction with an iron filtration unit and enclosure which will help to ensure a more effective reticulation system. (Update – iron filtration unit installed in 2021)</p>

(Appendix ORD: 12.3.4B)

Respondent	Respondent Comment	Officer Comment
	<p>To be honest I don't know why we cannot just have a designated area for unleashed dogs without encouraging people to picnic there which I think is just asking for trouble. I have been confronted on two occasions by people with picnics on the grass... actually sworn and shouted at, all because I told them that it perhaps wasn't such a good idea to have a picnic on the grass with loose dogs around.</p>	<p>provide shade and seating opportunities for all legitimate park users - including for dog owners, who may well also enjoy having a table setting to sit at.</p> <p>While the Reserve is a designated off-leash dog exercise area, it is also currently a popular fishing and recreational spot as well as being used by other groups in the community such as the Scouts who are based nearby (for occasional activities) and Cross Country runners club (for an occasional - possibly annual - running event.) It is not currently deemed feasible nor fair to try to exclude any particular group from the Reserve as it is enjoyed by many people for different reasons and is proposed to remain as a shared use space, therefore it is not intended to be nominated in the concept plan or any subsequent detailed designs or management plans as a 'dog exercise only' area.</p>
5. Mr B.	<p>There is no plan to fix up the waters' edge and get rid of the ugly boulders.</p> <p>This was once a great family area for kids to swim in the river and even had a rope swing to swing out into the water. If a limestone wall was to be built to protect the river bank and some steps to get into the water it would enhance the use by the greater public.</p>	<p>The Shire is presently working with adjoining Local Government areas and the Department of Water and Environmental Regulation on the Lower Collicie River Master Plan project, which is considering erosion mitigation and water quality along and in the river. The objective of this project is to plan a comprehensive solution across the whole of the river, and as working in one area will affect all other parts of the river it will be done with a strategic plan in place. Watson Reserve is being considered within the overall context of this project and it is advisable to wait until an overall strategy for the river is in place prior to undertaking significant localised erosion control works. The Director of Infrastructure has confirmed that the plans can be updated to include the recommended treatments which could also include some sections of limestone wall or other retaining wall (e.g. sheet piles etc).</p>
	<p>Placing a jetty to encourage boating people to use the park and toilet facilities, this may encourage more river</p>	<p>A 'fishing platform' (in effect a multi-purpose deck overhanging the water) has been proposed in the concept</p>

(Appendix ORD: 12.3.4B)

Respondent	Respondent Comment	Officer Comment
	<p>cruiises to barbecue at this location.</p>	<p>plan. This was intentionally kept subtle in form and scale, as a majority of the respondents did not want to see too many changes which might result in further user group conflicts and in dogs potentially being excluded from this 24/7 off leash dog exercise area. The merits of a jetty (e.g. floating style out into the water) versus a smaller deck along the shore could be investigated through detailed design, including funding opportunities through the Department of Transport.</p> <p>A majority of respondents in the initial consultation in 2018 explicitly requested that no BBQ's be installed in the reserve for this reason. As such, no BBQ has been included on the master plan. This could be reconsidered in future should the community come forward with considerable support for a BBQ in this location, as the picturesque river setting and presence of existing toilets do support the provision of a BBQ.</p>
	<p>This location has also been used for weddings in the past and if we place to big a canopy of trees the grass will not grow to enhance the picturesque location.</p>	<p>It is acknowledged that this is a venue enjoyed by various groups for gatherings including for special celebrations. The intent of additional tree planting is to create a more continuous canopy for the existing community of Endangered Western Ringtail Possums to be able to safely move through the reserve to forage out of reach of any visiting dogs or other potential threats. New plantings are intended to be clustered, to allow for 'copses' of trees to form and canopies to touch in points, but to still retain plenty of areas where the sunlight permeates through to the ground. Native shade-tolerant alternatives or supplements to the existing turf could be considered.</p>
	<p>Has any investigation or contact been made with the Aboriginal sector to see if this is a significant heritage location, my reason for this question is 45yrs ago when I moved into this area almost every weekend for over 20yrs indigenous families from the region would be swimming</p>	<p>Names of recommended local elders to speak to about the stories of the Collie River in this area were sought from the South West Aboriginal Land and Sea Council in 2018 and subsequently provided. It is proposed that consultation with the appropriate elders take place prior to any interpretive</p>

(Appendix ORD: 12.3.4B)

Respondent	Respondent Comment	Officer Comment
	<p>and fishing for crabs in the estuary and cooking them at this location.</p>	<p>signage being produced, in order to incorporate local Indigenous cultural heritage stories into the site. The publication 'Nyungar Values of the Collie River' (Beckwith Environmental Planning, for the Department of Water March 2009) as well as the Shire of Dardanup Local Heritage Survey (2016) has been referred to in the design process however it would be appropriate to also refer the plan to the relevant local Noongar contacts for input prior to any landscape improvements being implemented.</p>
	<p>When a member of the Leschenault Management Authority, that group built all the laterite retaining walls which have since been destroyed because of a lack of maintenance and the answer seems to be put boulders or building rubble which is full of chemicals onto the river bed to stop erosion.</p>	<p>Noted; to be considered in relation to any future erosion mitigation improvements.</p>
	<p>Has there been a fire strategy produced for this area due to only one exit by vehicle and three by foot going through the fire fuel area.</p>	<p>A dedicated fire strategy has not yet been prepared for the Reserve however the Shire's Bushfire Risk Planning Coordinator was consulted in 2018 and provided advice with respect to bushfire considerations. The main recommendation was to ensure that the firebreaks between the Reserve and adjoining private properties be maintained, which is an important operational consideration. It is intended to retain and protect the existing wetland for environmental reasons and in line with the consultation outcome of 'keeping the reserve as natural as possible' in addition to which the wetland itself could be seen as a fire dampening 'buffer'. In the event of a fire in the bush surrounding the reserve, people may be more likely to head towards the river rather than through the access driveway and paths.</p>
	<p>There needs to be pram access for young people to get to the park safely.</p>	<p>The bridge from the base of the existing steps across into Watson Reserve was nominated as the site 'boundary' for the</p>

(Appendix ORD: 12.3.4B)

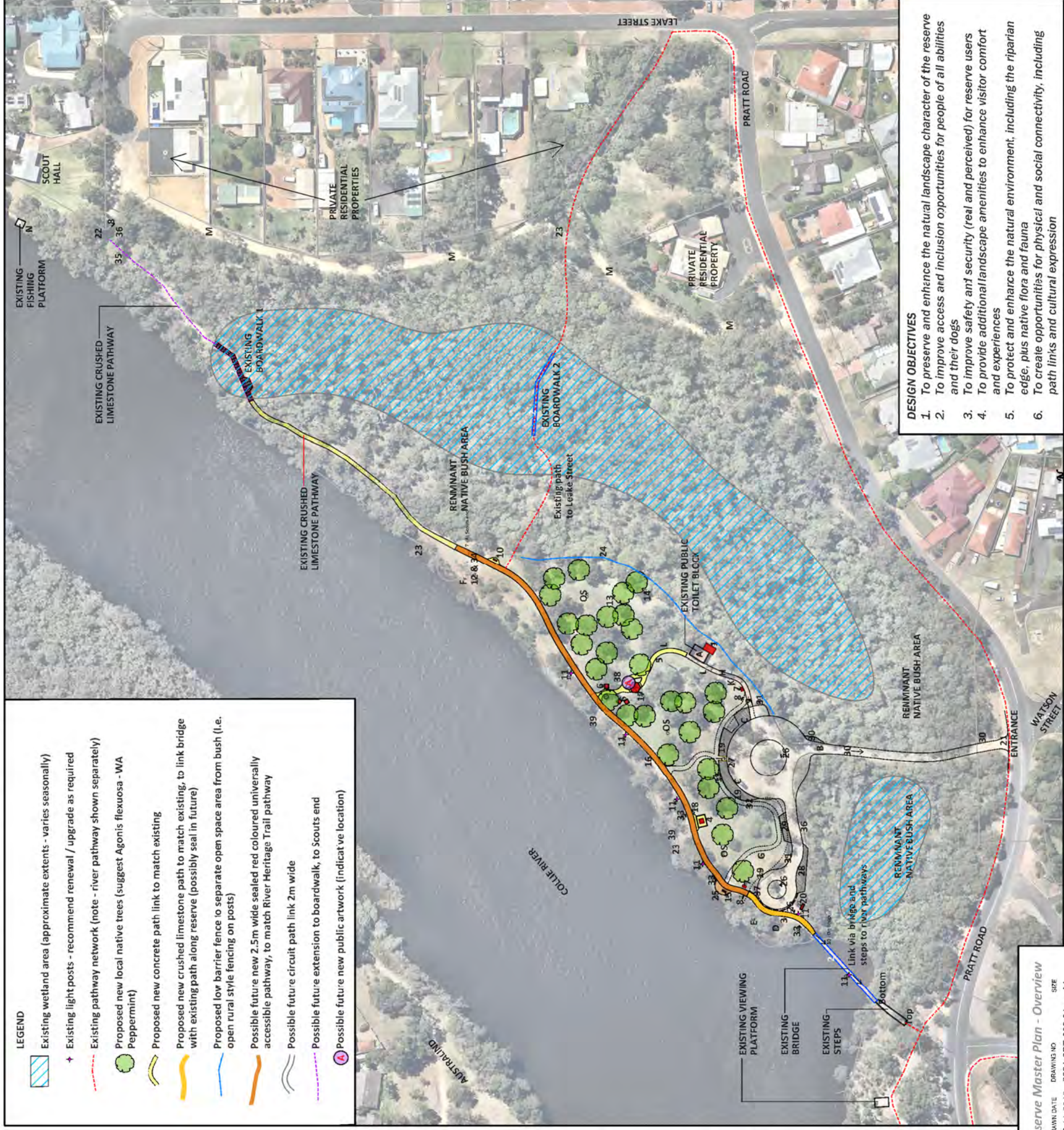
	Respondent	Respondent Comment	Officer Comment
			<p>purposes of this project. A potential long term future project idea, subject to considerable grant funding, could be to create an accessible zig-zag form 'skywalk' (ramped sections of platform through the bush, avoiding high value remnant vegetation) from the southern end of the bridge up to the lookout, to allow bicycles, prams and other wheeled mobility devices to more safely access the main part of the reserve and connect to the path network along the river. Improved and safer access into the reserve is worthy of inclusion in the plan, with any discrete projects being subject to feasibility and funding considerations. The engineering design team can consider a possible upgrade of the roadway from Pratt Road which could provide a shared zone with priority given to pedestrians (including sign posting to this effect).</p>
	<p>External stakeholders who provided feedback: DBCA</p>	<p>Comments received Represented by Local Aboriginal Elders</p>	
	<p>Traditional Owners</p>		<p>The Plan was referred to then Chairman of the Greater Bunbury Elders Group in August 2019 but Update May 2021: The Amended Plan was presented to Aboriginal Elders including the Traditional Custodian of the Collie River, Mr Joe Northover, at a meeting in March 2021. The Elders consulted were supportive of the plan and did not express any concerns or objections to proposals in the Plan.</p>
	<p>External stakeholders who declined to provide feedback or</p>		

(Appendix ORD: 12.3.4B)

	Respondent	Respondent Comment	Officer Comment
	who did not respond:		
	DBCA	Comments received	

WATSON RESERVE

Overview Plan



- EXISTING FEATURES**
- A Public toilet block
 - B Access driveway
 - C Informal car parking
 - D Informal canoe launching area (beach)
 - E Popular fishing area
 - F Popular dog swimming area (beach)
 - G Services - coves (maintain access)
 - H Concrete path from car park to toilets
 - J Maintenance vehicle access point
 - K Bore pump / irrigation controls
 - L Flood lights near toilets
 - M Firebreaks along property boundaries
 - N Fishing platform (Scout Hall end)
 - OS Open space area - reticulated turf

PROPOSED IMPROVEMENTS (subject to feasibility and funding)

1. Iron filtration unit and enclosure (installed in 2020/21)
 2. Proposed improvements to existing boardwalks and 'bridge' into reserve
 3. Proposed cement stabilised limestone path to link bridge to existing path (possibly seal in future with universally accessible material) together with proposed barrier to restrict vehicle access across pathway to beach area (suggest heavy logs along car park side of path, possibly replace in future with bollards)
 4. Proposed new picnic shelter with accessible picnic setting
 5. Proposed link path from toilets to river side path via gazebo, to link with path along river
 6. Proposed seating, possibly low square multi-use platforms
 7. Proposed double bin enclosure, possibly incorporating fishing hook and line bins
 8. Proposed park welcome signage and possible code of shared use (2 signs near car park in main part of reserve, 1 sign at Scouts Hall end)
 9. Proposed removal of existing U bar in path, if no longer required
 10. Proposed seat adjacent path, near popular dog swim beach
 11. Proposed renewal / upgrade of reserve lighting, as required
 12. Make dog swim beach safer by removing submerged rocks
 13. Proposed new tree planting - suggest *Agonis flexuosa* (WA Peppermint) as primary species
 14. Proposed installation of fauna resting boxes for native micro-bats (locate on site)
 15. Proposed to retain and refurbish existing memorial seat; suggest relocating in future onto or near future possible new river platform (as identified below)
 16. Proposed new 2.5m wide universally accessible path surface along 'park' area of reserve (area with reticulated turf/open space)
 17. Proposed renewal or existing gazebo and new accessible ramped pathway links
 18. Proposed new drink fountain with dog water bowl
 19. Proposed new vehicle exclusion bollards around car park (e.g. composite material) to replace existing bollards, limestone blocks and temporary logs
 20. Proposed bicycle parking (location to be confirmed)
 21. Proposed upgrade of signage atop of access driveway
 22. Proposed improvements near the Scout Hall including to the river fishing platform and the access pathway, plus signage and removable bollards to restrict unauthorised vehicles
 23. Proposed future environmental projects including river bank erosion mitigation works (throughout Reserve) and ongoing bushland weed removal
 24. Proposed low barrier fence between open part area and bush area (open at both ends), to deter dogs from 'unning through the wetland areas (at recommendation of DBCA)
- POSSIBLE FUTURE IMPROVEMENTS (subject to feasibility and funding)**
25. Possible future new river fishing platform - suggest a leaf shaped deck or floating platform
 26. Possible future additional reserve signage including directional / informational
 27. Possible future upgrade to car parking - recommend natural look 'earth coloured' surfacing (work around existing trees - retain)
 28. Possible future parking area for trailers (work around existing trees - retain)
 29. Possible future mobile trader bay (work around existing trees - retain)
 30. Possible future modification to access driveway entrance and bottom end, to create two vehicle pull-over bays for safer vehicle access and egress / improve general safety of driveway
 31. Possible new maintenance access points, with removable bollards
 32. Possible future path circuit linking toilets with proposed new river platform
 33. Possible future interpretive signage - to tie in with River Heritage Trail
 34. Possible future refurbishment of steps at 'dog swim beach'
 35. Possible future extension of boardwalk to Scout Hall end (subject to funding - i.e. grants)
 36. Possible future security camera - in most suitable location with view to car park and toilets (indicative location shown only)
 37. Possible additional dog waste bag dispensers, if required
 38. Possible opportunities for 'art in the park' e.g. dog themed / native fauna
 39. Possible future enhanced river access for recreational purpose, subject to recommendations from Lower Colli: River Master Plan (erosion mitigation) project
 40. Proposed incorporation of 'dual' naming on reserve signage, to incorporate Noongar name for the reserve - to be selected and confirmed with the appropriate local Elders (not shown on plan)

- LEGEND**
- Existing wetland area (approximate extents - varies seasonally)
 - Existing light posts - recommend renewal / upgrade as required
 - Existing pathway network (note - river pathway shown separately)
 - Proposed new local native trees (suggest *Agonis flexuosa* - WA Peppermint)
 - Proposed new concrete path link to match existing
 - Proposed new crushed limestone path to match existing, to link bridge with existing path along reserve (possibly seal in future)
 - Proposed low barrier fence to separate open space area from bush (i.e. open rural style fencing on posts)
 - Possible future new 2.5m wide sealed red coloured universally accessible pathway, to match River Heritage Trail pathway
 - Possible future circuit path link 2m wide
 - Possible future extension to boardwalk, to Scouts end
 - Possible future new public artwork (indicate location)

- DESIGN OBJECTIVES**
1. To preserve and enhance the natural landscape character of the reserve
 2. To improve access and inclusion opportunities for people of all abilities and their dogs
 3. To improve safety and security (real and perceived) for reserve users and experiences
 4. To provide additional landscape amenities to enhance visitor comfort and experiences
 5. To protect and enhance the natural environment, including the riparian edge, plus native flora and fauna
 6. To create opportunities for physical and social connectivity, including path links and cultural expression

Not to scale

DRAFT FOR APPROVAL

DESIGNED	VP	DRAWN DATE	20-11-2018	DRAWING NO	2021-CPT-006-01	REVISION		ENDORSED	
DRAWN	VP	AUTHORISED	LB	REVISION	6-05-2021				

Watson Reserve Master Plan - Overview
SITE A1

(Appendix ORD: 12.3.4C)

MASTER PLAN

WATSON RESERVE

Park Area



- LEGEND**
- Existing wetland area (approximate extents - varies seasonally)
 - Existing light posts - recommend renewal / upgrade as required
 - Existing pathway network (note - river pathway shown separately)
 - Proposed new local native trees (suggest *Agonis flexuosa* - WA Peppermint)
 - Proposed new concrete path link to match existing
 - Proposed new crushed limestone path to match existing, to link bridge with existing path along reserve (possibly seal in future)
 - Proposed low barrier fence to separate open space area from bush (i.e. open rural style fencing on posts)
 - Possible future new 2.5m wide sealed red coloured universally accessible pathway, to match River Heritage Trail pathway
 - Possible future circuit path link 2m wide
 - Possible future extension to boardwalk, to Scouts end
 - Possible future new public artwork (indicative location)

- EXISTING FEATURES**
- A Public toilet block
 - B Access driveway
 - C Informal car parking
 - D Informal canoe launching area (beach)
 - E Popular fishing area
 - F Popular dog swimming area (beach)
 - G Services - covers (maintain access)
 - H Concrete path from car park to toilets
 - J Maintenance vehicle access point
 - K Bore pump / irrigation controls
 - L Flood lights near toilets
 - M Firebreaks along property boundaries
 - N Fishing platform (Scout Hall end)
 - OS Open space area - reticulated turf

- PROPOSED IMPROVEMENTS (subject to feasibility and funding)**
1. Iron filtration unit and enclosure (installed in 2020/21)
 2. Proposed improvements to existing boardwalks and 'bridges' into reserve
 3. Proposed cement stabilised limestone path to link bridge to existing path (possibly seal in future with universally accessible material) together with proposed barrier to restrict vehicle access across pathway to beach area (suggest heavy logs along car park side of path, possibly replace in future with bollards)
 4. Proposed new picnic shelter with accessible picnic setting
 5. Proposed link path from toilets to river side path via gazebo, to link with path along river
 6. Proposed seating, possibly low square multi-use platforms
 7. Proposed double bin enclosures, possibly incorporating fishing hook and line bins
 8. Proposed park welcome signage and possible code of shared use (2 signs near car park in main part of reserve, 1 sign at Scouts Hall end)
 9. Proposed removal of existing U-bar in path, if no longer required
 10. Proposed seat adjacent path, near popular dog swim beach
 11. Proposed renewal / upgrade of reserve lighting, as required
 12. Make dog swim beach safer by removing submerged rocks
 13. Proposed new tree planting - suggest *Agonis flexuosa* (WA Peppermint) as primary species
 14. Proposed installation of fauna resting boxes for native micro-bats (locate on site)
 15. Proposed to retain and refurbish existing memorial seat; suggest relocating in future onto or near 'future possible new river platform' (as identified below)
 16. Proposed new 2.5m wide universally accessible path surface along 'park' area of reserve (area with reticulated turf/open space)
 17. Proposed renewal or existing gazebo and new accessible ramped pathway links
 18. Proposed new drink fountain with dog water bowl
 19. Proposed new vehicle exclusion bollards around car park (e.g. composite material) to replace existing bollards, limestone blocks and temporary logs
 20. Proposed bicycle parking (location to be confirmed)
 21. Proposed upgrade of signage atop of access driveway
 22. Proposed improvements near the Scout Hall including to the river fishing platform and the access pathway, plus signage and removable bollards to restrict unauthorised vehicles
 23. Proposed future environmental projects including river bank erosion mitigation works (throughout Reserve) and ongoing bushland weed removal
 24. Proposed low barrier fence between open park area and bush area (open at both ends), to deter dogs from running through the wetland areas (at recommendation of DBCA)
 - POSSIBLE FUTURE IMPROVEMENTS (subject to feasibility and funding)**
 25. Possible future new river fishing platform - suggest a leaf shaped deck or floating platform
 26. Possible future additional reserve signage including directional / informational
 27. Possible future upgrade to car parking - recommend natural look 'earth coloured' surfacing (work around existing trees - retain)
 28. Possible future parking area for trailers (work around existing trees - retain)
 29. Possible future mobile trader bay (work around existing trees - retain)
 30. Possible future modification to access driveway entrance and bottom end, to create two vehicle pull-over bays for safer vehicle access and egress / improve general safety of driveway
 31. Possible new maintenance access points, with removable bollards
 32. Possible future path circuit linking toilets with proposed new river platform
 33. Possible future interpretive signage - to tie in with River Heritage Trail
 34. Possible future refurbishment of steps at 'dog swim beach'
 35. Possible future extension of boardwalk to Scout Hall end (subject to funding - i.e. grants)
 36. Possible future security camera - in most suitable location with view to car park and toilets (indicative location shown only)
 37. Possible additional dog waste bag dispensers, if required
 38. Possible opportunities for 'art in the park' e.g. dog themed / native fauna
 39. Possible future enhanced river access for recreational purpose, subject to recommendations from Lower Collier River Master Plan (erosion mitigation) project
 40. Proposed incorporation of 'dua' naming on reserve signage, to incorporate Noongar name for the reserve - to be selected and confirmed with the appropriate local Elders (not shown on plan)

- General notes:**
- Recommended natural look and feel wherever possible, including timber-look materials and earthy colours
 - Proposed retention of stumps and logs for dog play features and for habitat



Not to scale

DRAFT FOR APPROVAL

Watson Reserve Master Plan - Park Area	
DESIGNED	VP
DRAWN	VP
AUTHORISED	LB
REVISION	6-05-2021
ENDORSED	-
DATE	20-11-2018
DRAWING NO.	2021-CPT-006-02
SIZE	A1

MASTER PLAN

(Appendix ORD: 12.3.4D)



Shire of Dardanup

WATSON RESERVE MASTER PLAN

PLAN REPORT



MAY 2021

(Appendix ORD: 12.3.4D)

Shire of Dardanup

ADMINISTRATION CENTRE EATON

1 Council Drive - EATON

TABLE OF CONTENTS

1. ABOUT WATSON RESERVE 4

2. CURRENT USE OF THE PARK 11

3. REDEVELOPMENT OPPORTUNITIES/VISIONS 13

1. ABOUT WATSON RESERVE

Site location and context

Watson Reserve is a 7ha Shire of Dardanup Reserve (R 25417) located adjacent the Collie River at Lot 5536 Pratt Road, Eaton. Its main access way is the driveway at the northern end of Watson Street. It is part of the Regional Open Space network and is included in the proposed Kalgulup Regional Park.

Nearby parks and reserves accessible via the existing path network include Leicester Ramble and associated wetlands, the Charolais Mews linear bush reserve, the Pratt Road bush reserve and the Eaton Foreshore further to the southwest. Below is an aerial image from May 2021.



Under the applicable Shire of Dardanup Town Planning Scheme, the adjoining private land holdings on Leake Street whose fences abut the reserve fire break (Lots 1-10) are zoned as R12.5, with a classification of Bushland Development Area. Other residential properties across the road from the reserve are zoned R30.

Site Assessment

Watson Reserve is a high value environmental and recreational area. It has a secluded, intimate and tranquil quality, bounded by the river and natural bushland, with a strong sense of nature connection. The reserve is located within the flood fringe of the Collie River thus access through the reserve varies seasonally, with winter bringing a greater level of inundation and occasionally rendering some areas inaccessible.

WATSON RESERVE MASTER PLAN

Visual water access is good, with views to the Collie River primarily from the open park area and from along the existing limestone pathway along the river. Most of the riverine edge of the reserve is more difficult to access physically due to existing rockwork (installed to mitigate the impacts of erosion) and some existing clumps of riparian vegetation, however there are some existing access points including a small beach popularly used for launching canoes and a 'dog beach' to the northern end of the open space area, popular for dogs to enter the water for a swim. There is a very close proximity to the water and opportunities exist through design to extend this experience.

Two distinct main functional areas are apparent – conservation bushland, and usable public open space. The reserve can be further split into different usage zones, being:

1. Access driveway and car park;
2. Main reserve open space area, including toilets and gazebo;
3. Fishing / canoeing / viewing area near bridge;
4. Surrounding bushland including wetland, with river trails / boardwalks to Scout hall and to Leake Street, plus firebreaks;
5. Scout hall, northern access point and surrounds;
6. Reserve area north of the Scout Hall (not included in the scope of this project) – difficult to access and classed as a high value environmental area including important Western Ringtail Possum habitat.

***Existing features***

Existing features that have been identified in the reserve include:

- A vehicle access driveway and car park, compacted limestone footpath, some unformed dirt paths, timber boardwalks and a bridge, and access points on the river for canoes or other small water craft;
- A crushed limestone path runs along the river along the full extent of the Reserve, which is used by the community for exercise and for transit;
- A staircase at the far south western corner of the reserve, just beyond the 'bridge', is not universally accessible and the only access/egress point to the main open park area of the reserve is along the relatively steep access driveway off Pratt Road;
- There are additional pathway links into the reserve at the northern end (near the Scout Hall) and from a narrow accessway from just north of the junction of Pratt Road and Leake Street.

- Signage is minimal, focusing primarily on prohibited and permitted activities,
- There is some old informational signage along the river about previously completed environmental projects, including by the Leschenault Catchment Council;
- Some posts without signs are dotted along the pathway;
- An existing toilet block was painted in 2018 by artist Andrew Frazer with an art mural featuring a 'dogs' theme, assisting to brighten the area;
- An existing old-style timber gazebo is located inbetween the existing public toilet block and the river;
- There is an existing park seat along the path by the river, known as 'Sophie's Bench', dedicated to the memory of the late child of two local residents. They wish for a memorial plaque to be installed on the bench and to be consulted if any changes are proposed to this bench in the future;
- There is currently no connecting path linking the toilets directly to the gazebo or river;
- There are existing wheelie bins on stands;
- There is an existing bore, pump and reticulation system located in the open space area of the reserve. Problems have been experienced over the years from the accumulation of residue from relatively high iron levels in the bore water, resulting in blockages, low flow pressure and resultant inadequate reticulation coverage to the turf and pitting of the path and surrounding ground surface from heavy water droplet throw;
- An iron filtration unit and enclosure, which was recently installed;
- Lights along the river, plus two floodlights near the toilet block;
- A dog water bowl and tap on the toilet wall, plus dog waste bag dispensers;
- Existing treated pine bollards and limestone blocks are the current means used to restrict unauthorised vehicles from entering the open space areas of the reserve;
- Maintenance vehicle access is currently through a boom gate in the main car park;
- There are a number of water access points for people and dogs visiting the reserve, including several small 'beaches' – a popular one is located just north of the main reticulated turf area, where the Leake Street connector path joins the main riverside path;
- Anti-erosion measures have been implemented along the river's edge over time including rock armature;
- There are services located within the reserve, with concrete lids set flush with the ground located at the southern end of the open space area of the reserve.

Risks and hazards

Risks that have been identified in the reserve include:

- River risk (no signs in place) – including deep water, submerged or possibly unstable / slippery rocks, riverbank erosion including washouts and fallen trees;
- Submerged rocks have been identified as a potential safety hazard for people and dogs at the 'dog beach' area in particular;
- Possibility of personal injury or property damage from any falling tree limbs;
- The possibility of health effects from snake or mosquito bites;
- Seasonally inundated ground, particularly during major rain events and high tides;
- Crime and general anti-social issues, particularly after dark; (lighting has been identified as currently being insufficient);

WATSON RESERVE MASTER PLAN

- Access issues – no road markers currently in place over the culvert;
- Uneven surface and occasional drainage problems in the car park;
- Risk of accidents from vehicles ‘hooning’ in the car park;
- Risk to personal and property security from crime or anti-social behaviour in the reserve;
- Potential risk from any conflict between two or more dogs, or between dogs and people;
- Snake activity increases in Spring and can deter some dog owners from visiting the reserve;
- Potential injury to people, dogs or native fauna from fishing waste (hooks and line, blowfish) left in by the river;
- Potential injury to native fauna, particularly Western Ringtail Possums, by animals including dogs.

**Issues*****Accessibility issues***

- Access for vehicles – there is only one narrow entrance driveway with no room to pass and limited space to pull over. The access / egress point on Pratt road is on a blind spot with double lines, with limited visibility along Pratt road to the west;
- Car parking is fairly informal, without marked bays or circulation system. It extends right to the river’s edge, cutting the bridge off from the nearby limestone pathway;
- Accessibility for people – particularly linking the toilets, gazebo and existing path network;
- Accessibility for bicycles, gophers, prams or other non-motorised wheeled craft – limited access in due to the steep steps on the western end of the bridge into the reserve and the aforementioned narrow driveway. No directional signage;
- Signage – the reserve is not identified by any entrance signage, nor much informational signage other than highlighting sanctioned (dog exercising) and prohibited (camping) activities.

***Safety and security issues***

- There is limited passive surveillance overall, with no surveillance possible from any nearby residential properties in Eaton, due to screening from surrounding streets by bushland, and only limited surveillance from other vehicles accessing the car park and reserve users;
- There is some intermittent surveillance from residents across the river in Australind and from water craft on the river;
- Police occasionally patrol the car park due to receiving reports of antisocial behaviour, particularly in the public toilet block and in parked cars;
- A surveillance camera that was placed high in a tree in the reserve was stolen shortly after installation;
- The lighting along the river pathway did not work at the time of assessment (with no luminaires in place) and reportedly had not worked for a number of years, causing darker conditions than are ideal along a path;
- Antisocial behaviour is regularly reported to the Shire and police, particularly in the toilets after hours, with issues including drug use, vandalism and other unlawful activity;
- Occasional user conflicts between those using the reserve to exercise their dogs off lead and other reserve users, particularly those using the area for events;
- Asset maintenance – the existing gazebo has exposed treated pine timber posts;
- Glyphosate – users have expressed concerns about the use of non-coloured Glyphosate herbicide in the reserve, saying that it could cause injury to their dogs from facial exposure;
- Fishing waste and debris – users have expressed concerns about blowfish and other fish waste, fishing line and hooks being left in the reserve close to the water line, presenting a risk to people and dogs;
- Vehicles doing ‘bog laps’ in the car park and pushing barriers over to enter the reserve present a potential hazard to other reserve users and damage the reserve assets;
- Hazard from submerged smaller rocks at water’s edge, particularly at ‘beach’ locations;
- As an area with considerable vegetation cover, bushfire considerations will need to be addresses including the maintaining of fire breaks between Watson Reserve and adjoining private properties.



Amenity issues

- The existing toilets are sometimes vandalised or the subject of other anti-social behaviour, resulting in reduced amenity for legitimate users of the facilities;
- There is currently no drinking water fountain in the reserve;
- Seating is limited, with only one existing seat adjacent the river;
- There is ample shade from existing trees on site, but opportunity to plant more to enhance aesthetics and to provide additional fauna habitat;
- Seasonal inundation cuts off access in areas.



Cultural issues

- The Collie River is known to be important to local Noongars as an identified Waugal site (Collie River as a Registered Aboriginal Site ID# 16713, Department of Planning, Lands and Heritage). It is important to consult with the identified Noongar elders who can speak for the area if any cultural information for any potential interpretive signage is sought;
- If interpretive information such as a signage trail with information and art is included in the works then it is recommended that Noongar input from at least one of the identified elders be incorporated. This could help to identify art themes for future art trail / other art works in the reserve and connected open space areas;

- The current usage of the reserve needs to be acknowledged, being a blend of active and passive recreation, including use as a dedicated dog off leash exercise area, popular fishing spot and scenic picnic area.

Environmental

- Watson Reserve is classed as a significant natural asset with a 'sensitive' rating, as it is a reserve within a known environmentally sensitive area;
- The reserve has been identified as existing habitat for the critically endangered Western Ringtail Possum (*Pseudocheirus occidentalis*). In Western Australia this species is listed as fauna that is rare or likely to become extinct (Specially Protected) under the Wildlife Conservation Act 1950. Western ringtail possums are only found in the south-west of Western Australia;
- There is noticeable erosion along the river banks including washouts from river craft, which compromise the structural integrity of trees on the water's edge whose roots are important for bank stabilisation;
- Riparian vegetation has been degraded in some areas such as by trampling from foot traffic, further exacerbating the problem of river bank erosion;
- Inundation occurs seasonally, and quite regularly through winter, restricting access through the reserve and washing away sections of path;
- Weed infestation has been identified as a significant issue, particularly closer to the residential property boundaries;
- Class 1 and 2 Acid Sulfate Soils may be present;
- The water quality entering the reserve's wetland system from the roadways has been highlighted as an issue to investigate, as it may impact the health of the vegetation and waterway;
- People have been reported as setting illegal fishing nets off the bridge at the southern end;
- The reserve wetland areas are a known site for breeding waterbirds who need vegetation as protection from other animals including feral cats and foxes. The vegetation provides more cover for such species to breed in more relative safety. The vegetation in the fringing wetland allows for improved water filtering, and helps to prevent flooding;
- The Lower Collie River Masterplan project in 2019 involved mapping sections of the Collie River, including along Watson Reserve, with the aim of planning for future river bank erosion mitigation works;
- An Erosion management Plan has recently been prepared by a coastal engineer, which outlines the hot spots for erosion and what can be done to repair it. Protecting all of the riparian (fringing wet) vegetation along the Collie river at Watson Reserve is an important step in flood management in the area as well as protecting vulnerable eroded shoreline from storm events. This report will go to Council towards the end of the 2021;
- Planting additional trees is proposed, particularly *Agonis flexuosa*, to protect the existing population of Western Ringtail possum is important, as the current trees are old and over time will die of old age and won't be replaced unless a program is put in place now. Possums need these trees for food, habitat and refuge. Planting clumps of 2-5 near one another will ensure that possums have safe passage to reach the canopy cover of existing trees without having to go to ground, where they are vulnerable to attack from other animals.
- Fauna boxes to encourage native micro-bats to nest in the reserve area could assist to naturally reduce mosquito population (supported for trial by the Shire's Principal

Environmental Health Officer). There are bat boxes available which are proposed to be installed in Watson Reserve;

- The Department of Conservation, Biodiversity and Attractions have recommended the installation of a section of fencing between the open reticulated turf 'park' area of the reserve and the bush areas surrounding the turfed area, to discourage dogs from running through the wetland areas and putting nesting birds and other fauna at risk;
- Many weeds are present in the reserve, particularly along the firebreaks close to the private property boundary, and it is desired to remove these weeds to preserve the integrity of the natural bush environment dependent on funding and resources.

Maintenance issues

- Watson Reserve has a high level of iron in the bore water extracted on site, resulting in the filter becoming clogged regularly and operating ineffectively;
- The reticulation system is problematic, with low pressure resulting in ineffective 'throw' which causes prominent pitting of the paths and natural surfacing. Prolonged pitting results in a series of ridges across the open areas of the reserve. (Note that as at May 2021, an iron filtration unit had recently been installed, to remedy the problems arising from iron content in the irrigation water.)

Bushfire issues – including comments from the Shire's Bushfire Risk Planning Coordinator

- The reserve contains a substantial area of densely vegetated bushland and has been classified as having a high BAL rating;
- Firebreaks need to be maintained between the reserve and the adjoining residential properties, to 3-4 metres width and 4 metres in height;
- The main concern would be elevated fuels (rather than ground surface litter), such as bracken, weeds, shrubs;
- Fuel modification along the residential fencelines could be desirable;
- There may be the opportunity of opening up a funding stream for revegetation works (eg with local endemic species with low fire risk), through the Office of Emergency Management (OEM – part of DFES) who manage the Mitigation Activity Fund (MAF).

2. CURRENT USE OF THE PARK

Watson Reserve is regarded by local residents as a 'hidden gem' and is highly valued as a place to visit for active and passive recreation and to simply enjoy the scenic natural setting of the Collie River.

For purposes of asset management, Watson Reserve has been classified as a 'Community Park Level 2' in the Shire's Draft Open Space Level Of Service (LOS) framework. This means that it has been classed as *Developed urban open space used for a range of informal recreational activities, particularly children's play* and family based activities* and classed as 'a larger park that people will often travel several kilometres to use. A good range and number of quality assets provided, and maintained at a high standard.' The park is intended to serve the community as neighbourhood open space.

** Note that due to the reserve being an off lead dog exercise area, this use is not considered compatible with the function of a children's play area.*

Argument could be made that this park also has elements of a Nature Park and Linear Park. It is not a traditional Community Park due to its proximity to the water, boat ramp, and other linear and nature parks. It is also separated from residential areas by natural bushland areas and is of significant size. Watson Reserve is also a dog exercise area, a function which is not usually associated with Community Parks.

As part of the Regional Open Space network, Watson Reserve attracts visitors from within and beyond the Shire of Dardanup boundaries. As it has become more popular, various issues have been identified including occasional conflicts of use, safety and security concerns and accessibility. It is anticipated that select landscape improvements within the Reserve could help to alleviate some of the issues that have been raised and to improve general site amenity.

Many dog owners enjoy visiting this Shire of Dardanup 24/7 off leash dog exercise area to exercise and socialise their dogs and to enjoy recreational and social connection opportunities themselves. Many visitors without dogs including the nearby Scout group also use the Reserve for activities including walking, fishing, canoe launching, meditating and holding social gatherings.

Existing usage patterns

- The reserve is well used as the Shire's only current 24/7 off leash dog exercise area. This has seen its popularity increase recently as word has spread, with residents throughout the Shire and from other Local Government areas now bringing their dogs there to exercise and socialise;
- Other informal recreational uses of the site include walking, fishing, canoeing, meditation / relaxation and nature observation;
- Local groups such as the Scouts, who have their base at the northern end of the reserve, use the area for some of their activities;
- The reserve is occasionally used for private gatherings such as weddings. As it is a public reserve it cannot be booked however the groups generally advise the Shire of their intentions. This can occasionally create situations of actual or perceived user conflict between visiting groups and those who visit to exercise their dogs;
- The Shire of Dardanup occasionally holds events in the reserve. Access and parking can present a problem and complex access management plans have had to be put in place for previous events;
- There is a conservation focus, important for the community and for vegetation and associated wildlife.



It has been observed that the community uses the park for a mixture of informal active and passive recreation, including the following:

Informal active recreation

- Walking, bike riding, or gophering along the path – including pushing prams;
- Exercising dogs (primarily off lead) including dogs swimming in the river;
- Fishing;
- Launching small water craft such as canoes;
- Playing ball games and informal ball kickaround activities – including in the wider open space area and in the linear open space areas;
- Exercise activities in the grassed open space areas.

Passive recreation:

- Sitting and enjoying the river views;
- Socialising with other dogs owners (and dogs socialising with one another);
- Picnics;
- Use for community events such as weddings and Shire organised events such as night stalks and nature play activity days.

3. REDEVELOPMENT OPPORTUNITIES/VISIONS

The draft Plan was been developed following consultation with the community and other external stakeholders as well as with relevant Shire staff. It covers the portion of Watson Reserve extending from the existing pedestrian access bridge at the northern end of Hands Avenue to the area in front of the Scout Hall property at the northern end of Leake Street.

The focus of the next stage of significant proposed landscape upgrade works is on the main ‘open space’ area of the reserve however additional suggestions are included for possible future works (subject to funding) extending to the Scout Hall area on Leake Street.

Community engagement, research, design and documentation was undertaken by the Shire’s Landscape Design Officer in consultation with other staff and external stakeholders.

Relevant reports and other documents***Site related***

- Management Plan for Shire of Dardanup Reserve 25417, prepared for the Shire of Dardanup by Melanie Strang (EcoEdge Environmental Pty Ltd), January 2010 (recommended for review);
- SWCC (Consultancy) Dardanup Bushland Reserves Review Rev A1, particularly pages 9, 40
- Pratt Road 'Land for Wildlife' – report Oct 2014, DPAW (Land for Wildlife program);
- Leschenault Regional Park Establishment Plan (Department of Planning, Lands and Heritage together with the Western Australian Planning Commission), 2017;
- Management Plan for the Eaton Wetlands (Elloura Park, 2008);
- The Shire's Significant Tree and Natural Asset Register (last modified in March 2017);
- Watson Street Revegetation – by Allana (internal Shire document);
- Bushland Reserve Audit Form (date unknown)
- Eaton Foreshore Management Plan;
- Eaton Wetland Management Plan.

General

- Draft 'Liveable Neighbourhoods' 2015 (WAPC operational policy);
- Shire of Dardanup draft Classification Framework for Open Space Levels of Service;
- Shire of Dardanup Disability Access and Inclusion Plan;
- CPTED ('Designing out crime') principles;
- WALGA Guidelines for Bushland Management;
- Shire of Dardanup Bushfire Management plan.

Opportunities

- Improve the access driveway, car park and linear path connections;
- Boardwalk extension through low lying areas that tend to become boggy / wet in winter;
- Improved accessibility through better path connections, including to toilets and any shelters;
- Improve area in front of Scout Hall including pathways and fishing platform;
- Interpretive signage – for natural and cultural heritage education opportunities;
- Opportunities to improve river access through improved beach access points (without submerged rocks) and river fishing / viewing decks;
- Provision of public amenities such as new shelters, seating and other amenities;
- The suggestion of provision of bbq facilities proved to be contentious during the consultation phase so this has not been included in the proposed landscape upgrade works;
- Protect possums and their habitat – consider provision of nesting boxes and planting more suitable food and habitat trees such as Peppermints;
- Provide bat nesting boxes as a 'test run' for natural mosquito control methods;
- The Eaton Foreshore Walk (registered on the Trails WA website) passes through Watson Reserve. The opportunity might arise in the future, subject to funding, to extend this walk trail system and to potentially connect with a possible future 'Bridge to Bridge' walk connecting river foreshores of the Shires of Dardanup and Harvey and the City of Bunbury.

Constraints

- The reserve open space areas are enclosed by dense vegetation, including native bushland;
- Seasonal inundation and tidal movement impact on the reserve, occasionally cutting off access through the reserve and washing path materials away;
- Department of Planning / other authority – development in flood fringe;
- Maintenance considerations, including mower access and clearances.

Design Objectives were established relating to the following key tenets, and included on the Plan:

Objective 1 – Landscape character

To preserve and enhance the unique landscape character of the reserve as a natural and peaceful space, enhancing its visual amenity. To ensure that any proposed new landscape features are sympathetic to this character, including appropriate use of materials.

Objective 2 – Access and inclusion

To provide opportunities for people of all ages and abilities and their dogs to enjoy the reserve, including linking existing amenities with universally accessible paths. To provide features which welcome visitors and make them feel included, such as signage.

Objective 3 – Safety and security

To increase real and perceived feelings of safety and security by legitimate reserve users, such as through using design to activate the space and increase passive surveillance and by improving lighting in the reserve.

Objective 4 – Amenity

To provide park furniture and other user amenities to increase the comfort and improve the experience of visitors to the reserve. To provide other landscape features to enhance the site's sense of place, such as additional planting for shade and aesthetics. To ensure that any proposals are able to be adequately maintained.

Objective 5 – Environmental considerations

To protect and enhance the natural environment including local native vegetation. To preserve fauna habitat and provide additional opportunities to support populations, particularly of Western Ringtail Possums, black cockatoos and native micro-bats.

Objective 6 – Cultural considerations

To link the Watson Reserve upgrade project with the river heritage trail pathway, including possible future inclusion of interpretive signage in Watson Reserve which has the opportunity to share stories of the Noongar and non-Indigenous cultural traditions as well as natural heritage. To enrich the reserve with possible future art, events and other expressions of culture.

Further information on the above objectives is included below:

Objective 1 – Landscape character

- Ensure all improvements are subtle and support the natural character of the reserve;
- Opportunities to enhance the visual amenity of the reserve by additional planting, general landscape improvements and artworks;
- Provide opportunities to enjoy the iconic ‘river bend view’ from the reserve to the Collie River.

Objective 2 – Access and inclusion

- Improve driveway access into the reserve off Pratt Road;
- Improve car parking at the Scouts end and in the main reserve area;
- Reclaim part of the main reserve car park closest to the river, to prioritise pedestrians over vehicles;
- Refurbish board walks and improve trails network;
- Improve accessibility and inclusion – linking existing path network, gazebo/s, toilets and car park, plus providing accessible furniture and other amenities;
- Enhance river access opportunities for canoeing and rowing (launch sites, both ends), fishing (paths and platform/s – including access at northern end of boardwalk), dog swimming (safe beach areas);
- Extend main boardwalk north slightly (to forked tree), as addition to replacement program
- Provide directional signage – including for cyclists (link to road networks);
- Provide ‘Friendly’ signage at top of access driveway – identifying the reserve.

Objective 3 – Safety and security

- Activate the space by encouraging more people to visit, for enhanced passive surveillance;
- Improve existing lighting;
- Provide additional lighting, if feasible (eg in car park). Possible sensor lighting;
- Install vandal resistant security camera/s;
- Encourage residents to call police as soon as possible to report any witnessed unlawful activity;
- Encourage residents to call Fisheries Department to report any setting of illegal fishing nets;
- Investigate opportunities to improve traffic safety, particularly at top of access road and while two cars are simultaneously trying to enter and exit the reserve car park;
- Investigate opportunities to improve car parking, to improve efficiency and safety, and to reduce opportunities for hoons to do ‘broggies’ in the circular car park;
- Exclude unauthorised vehicles from the reserve;
- Investigate opportunities to link to the ‘Choose Respect’ program;
- Investigate opportunities to link to the ‘Yellow Dog’ program.

Objective 4 – Amenity***Recreation***

- Retain reserve as a 24/7 dog off lead exercise area, with open space areas and river access;

- In conjunction with this project, to investigate the proposed enclosed dog exercise area project, to identify relevant common issues;
- Improve opportunities and amenities for *fishing, canoeing, scouts, visiting activity groups, and picnics*.

Functional amenity

- Ensure maintenance vehicles and emergency services are able to access the reserve;
- Provide signage to reduce conflict of use situations – fishing litter / dogs, dogs off lead;
- Provide more seating, possibly picnic settings and more shelter/s (including some tables under shelter);
- Provide bin near fishing area, or a special ‘fishing line and hooks’ bin (possibly both);
- Possibly provide a bin near the gazebo / picnic tables;
- Investigate bin surrounds – with labelling for rubbish vs recycling if feasible, or poles for bins;
- Provide extra dog waste bag dispensers (including at Scouts end) and possibly extra / relocated bins;
- Provide a drinking water fountain for people and pets;
- Bike racks and signage to indicate bike access route to continue a cycle journey along the foreshore;
- Plant some additional trees for extra shade, as selective screening and as fauna food and habitat;
- Resurface board walks and bridge with composite material;
- Only use larger rocks as armature, particularly at ‘beach’ sites – as smaller sharp submerged basalt rocks could be a hazard;
- Investigate feasibility of upgrading Scouts river platform (eg. new decking on top) – check structural integrity;
- Provide for mobile trader van parking.

Visual and cultural amenity

- Retain river views and provide additional opportunities to rest and enjoy the river / sunset views;
- Provide interpretive signage – for environmental and cultural education, for social / use codes (promoting positive people-dog interactions and responsible fishing);
- Promote opportunities for public art in the park.

Maintenance

- Install iron filter for bore pump (completed);
- Upgrade reticulation system;
- Any required maintenance of car park and access road, such as repairing pot holes or ruts;
- Any required maintenance within the reserve, including pruning of dead or diseased tree limbs;
- Review reserve maintenance program following landscape improvements, for any adjustments;
- Continue to maintain firebreaks;

- Address any drainage issues at cul-de-sac in front of Scout hall;

Possible future works

- Future – raise boardwalks / path slightly, if feasible (considering requirement for free water movement);
- Future – if major funding secured: extend boardwalk to path in front of Scout Hall;
- Future – possible landscape enhancements to area in front of Scouts (NB: only if feasible, as they hold the lease on this Regional Open Space zoned parcel of land);
- Future – consider providing access steps at fishing platform (down from Scout Hall).

Objective 5 – Environmental considerations

- Plan for ongoing bushland management including weed eradication (particularly near Leake Street connector entrance and behind residential properties) and revegetation (particularly along river banks);
- Plan for riverbank erosion control works;
- Install possum nesting boxes in Peppermint Trees;
- Riverbank stabilisation – possible installation of baffles, if feasible;
- Possibly investigate non-chemical management of weeds; if chemical, use dyes (for dogs);
- Future – possibly encourage a ‘Friends of the Reserve’ group to re-establish for bush care works;
- Future –investigate water quality entering the Watson Reserve wetlands from the roadways;
- Plan to address washouts along river, for tree stability.

Objective 6 – Cultural considerations

- Opportunities to acknowledge the local Indigenous cultural heritage, such as through interpretive signage and possibly themed artworks;
- Work with specific residents to have a plaque installed on their memorial bench, ‘Sophie’s Bench’;
- Ensure that Sophie’s Bench is retained at or close to its present location, and maintained over time.

Summary

The Watson Reserve Master Plan has been developed to reflect the needs of the community and other users of the space as well as taking into consideration the sites’ natural and cultural heritage, environmental sustainability issues and any maintenance requirements and implications.

RISK ASSESSMENT TOOL									
OVERALL RISK EVENT:		Watson Reserve Masterplan – Endorsement of final Plan							
RISK THEME PROFILE:		1 - Asset Sustainability Practices 6 - Engagement Practices							
RISK ASSESSMENT CONTEXT:		Project							
CONSEQUENCE CATEGORY	RISK EVENT	PRIOR TO TREATMENT OR CONTROL			RISK ACTION PLAN (Treatment or controls proposed)	AFTER TREATMENT OR CONTROL			RESIDUAL RISK RATING
		CONSEQUENCE	LIKELIHOOD	INHERENT RISK RATING		CONSEQUENCE	LIKELIHOOD	RESIDUAL RISK RATING	
HEALTH	No risk event identified for this category.	Not Required - No Risk Identified	N/A	N/A	Not required.	Not required.	Not required.	Not required.	Not required.
FINANCIAL IMPACT	No risk event identified for this category.	Not Required - No Risk Identified	N/A	N/A	Not required.	Not required.	Not required.	Not required.	Not required.
SERVICE INTERRUPTION	No risk event identified for this category.	Not Required - No Risk Identified	N/A	N/A	Not required.	Not required.	Not required.	Not required.	Not required.
LEGAL AND COMPLIANCE	No risk event identified for this category.	Not Required - No Risk Identified	N/A	N/A	Not required.	Not required.	Not required.	Not required.	Not required.
REPUTATIONAL	Delivering the project in line with Community expectations.	Minor (2)	Possible (3)	Moderate (5 -11)	Negative perception of the Shire if projects are not programmed to meet Community needs.	Minor (2)	Unlikely (2)	Low (1 - 4)	
ENVIRONMENT	No risk event identified for this category.	Not Required - No Risk Identified	N/A	N/A	Not required.	Not required.	Not required.	Not required.	Not required.



DARDANUP
BUTCHERING COMPANY • 1950

9TH April 2021

Chief Executive Officer
Shire of Dardanup
1 Council Drive
EATON WA 6232

ATTENTION: MR ANDRE SCHONFELDT

Dear Andre,

PANIZZA ROAD, DARDANUP

We have previously discussed the dust issue created by vehicles travelling on the unsealed section of Panizza Road. Tuesday of this week Carbone trucks, as pictured below, spend the day travelling up and down Panizza Road. Carbone's are not the only heavy vehicles using the road.

Further it does not matter if it is a heavy vehicle or not as dust is generated by whatever vehicle travels along the unsealed section. There are any number of commercial vehicles and private vehicles that travel daily along Panizza Road to connect to Banksia Road and return.



The dust obviously travels whatever way the wind is blowing and with the prevalence of easterly winds of recent months it is severely impacting upon many properties on Panizza Road. It is not just when the wind is blowing that the dust is a nuisance. Below is a photo of the dust moving across my property at Lot 100 on a still evening. It just lays across the top of the land slowly covering the property.



(Appendix ORD: 12.3.5A)

I have intentions of re-locating from 55 Panizza Road to Lot 100 Panizza Road in the near future and the dust issue is of serious concern. I feel very sorry for those people that live opposite Lot 100's entry given the amount of dust they have to deal with daily.

The bridge at the intersection of Panizza Road and Crooked Brook Road is now damaged following some form of incident. There is red paint on the damaged panels so one can only assume what did the damage.

The upkeep of the unsealed section of Panizza Road must be costly given the number of vehicle movements travelling along it. Further a number of the drivers of the vehicles using the road have no interest in the safety and well being of others using the road.

I was of the understanding from our meeting that heavy vehicles were not permitted to use Panizza Road yet they still do.

If the Shire does not want to make Panizza Road a No Through Road at its intersection with Banksia Road then please seal the unsealed section. If nothing else it will stop the dust nuisance that those of us that live on Panizza Road are having to unfortunately endure.

In anticipation I thank you for your consideration and look forward to your further reply.

Yours faithfully,



MARK PANIZZA

RISK ASSESSMENT TOOL									
OVERALL RISK EVENT:		Request for Closure of Thoroughfare on Panizza Road							
RISK THEME PROFILE:		2 - Business and Community Disruption							
13 - Project/Change Management		Operational							
RISK ASSESSMENT CONTEXT:		Operational							
CONSEQUENCE CATEGORY	RISK EVENT	PRIOR TO TREATMENT OR CONTROL			RISK ACTION PLAN (Treatment or controls proposed)	AFTER TREATMENT OR CONTROL			RESIDUAL RISK RATING
		CONSEQUENCE	LIKELIHOOD	INHERENT RISK RATING		CONSEQUENCE	LIKELIHOOD	RESIDUAL RISK RATING	
HEALTH	Impact of dust generated from the road because of vehicles using this road as through route to waste precinct	Moderate (3)	Almost Certain (5)	High (12 - 19)	Closure of thoroughfare (physical barrier)	Minor (2)	Unlikely (2)	Low (1 - 4)	
FINANCIAL IMPACT	Impact to businesses due to closure of thoroughfare and the need to travel via another route	Moderate (3)	Possible (3)	Moderate (5 - 11)	Not required.	Not required.	Not required.	Not required.	
SERVICE INTERRUPTION	Emergency services impacted by the closure	Catastrophic (5)	Possible (3)	High (12 - 19)	Public notice of closure, advising emergency services of changes and they will remap routes	Catastrophic (5)	Rare (1)	Moderate (5 - 11)	
LEGAL AND COMPLIANCE	Policing problems if the closure is limited to certain classes of vehicles or road is left open and truck that should not be using the road are still using the road	Moderate (3)	Likely (4)	High (12 - 19)	Closure of thoroughfare (physical barrier) – eliminates need for compliance and opportunities for non-compliance.	Moderate (3)	Rare (1)	Low (1 - 4)	
REPUTATIONAL	Complaints received regarding lack of compliance	Moderate (3)	Likely (4)	High (12 - 19)	Closure of thoroughfare (physical barrier) – eliminates need for compliance and opportunities for non-compliance.	Moderate (3)	Rare (1)	Low (1 - 4)	
ENVIRONMENT	Tree clearing required for sealing works results in loss of habitat	Moderate (3)	Almost Certain (5)	High (12 - 19)	Road closure to be implemented as an alternative to road upgrade.	Insignificant (1)	Unlikely (2)	Low (1 - 4)	

