

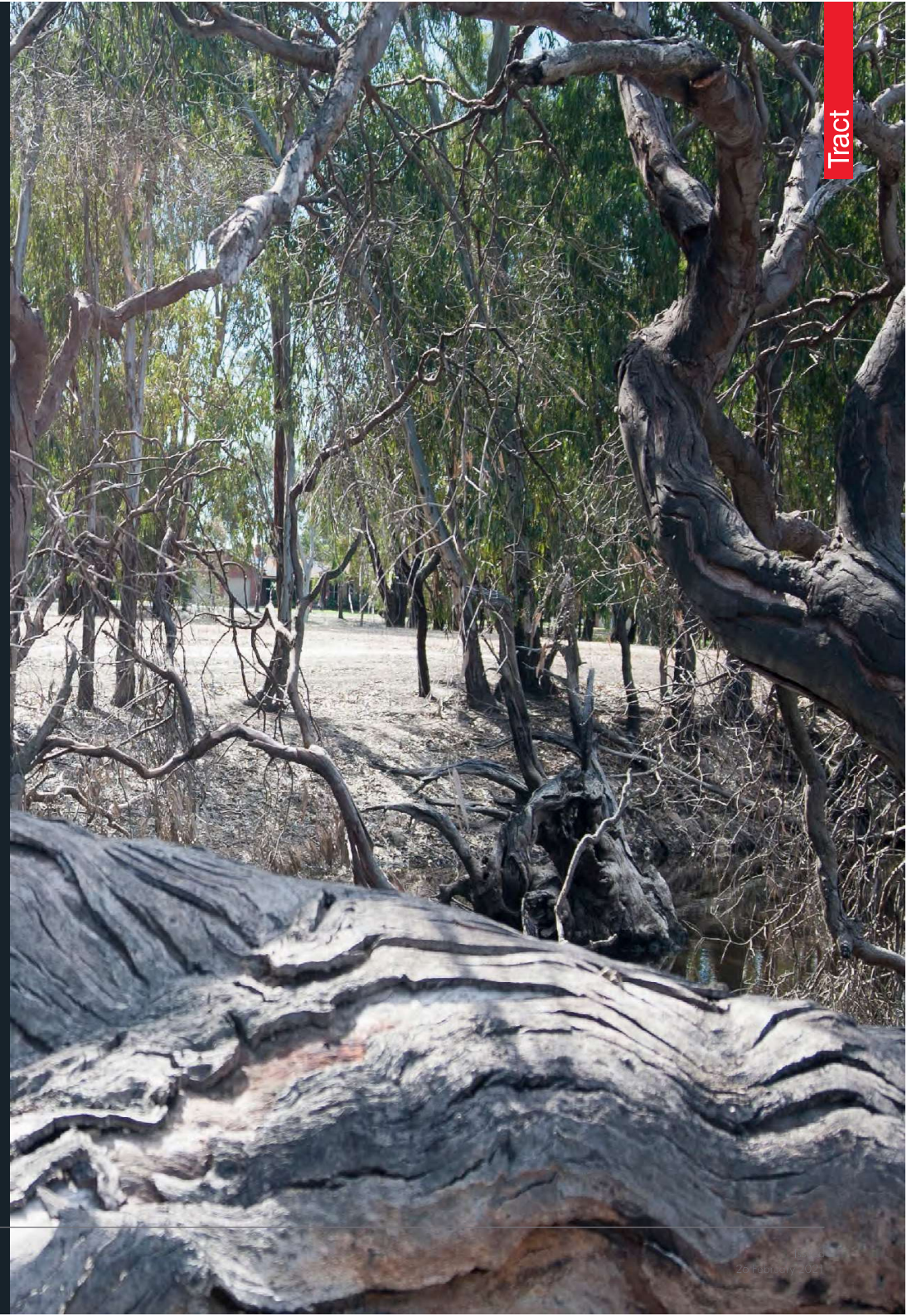
Wimmera Riverfront Nature and Water Play

Landscape Development

RP02 Funding Application Report

Prepared for Horsham Rural City Council

26 Feb 2021



Quality Assurance

Wimmera Riverfront Nature and Water Play Park

Landscape Development

Prepared for Horsham Rural City Council

Project Number
0318-0995-00-L-02-RP02

Revision (see below)
03

Prepared By
EC

Reviewed By
NS

Project Principal
RC

Issued
26 February 2021

Acknowledgement of Country

Horsham Rural City Council and Tract Consultants acknowledge the five Traditional Owner groups of this land; the Wotjobaluk, Wergaia, Jupagalk, Jaadwa and Jadawadjali people, represented by the Barenji Gadjin Land Council.

We recognise the important and ongoing place that all Indigenous people hold in our community.

We pay our respects to the Elders, past, present and emerging, and commit to working together in the spirit of mutual understanding and respect for the benefit of the broader community and future generations.

Revisions

Rev	Issued	Details	Prepared By	Reviewed By	Project Principal
[00]	[17 June 2020]	[Wimmera Riverfront Water Play Facility Report]	[EC]	[NS]	[RC]
[01]	[18 June 2020]	[Wimmera Riverfront Water Play Facility Report]	[EC]	[RC]	[RC]
[02]	[28 September 2020]	[Wimmera Riverfront Water Play Facility Report]	[EC]	[NS]	[RC]
[03]	[26 February 2021]	[Wimmera Riverfront Nature and Water Play Facility Report]	[EC]	[NS]	[RC]



Background / Location

This project is the first stage of the City to River Masterplan to enhance and revitalise the Wimmera River Precinct and Central Activity District of Horsham.

The Wimmera River is one of Horsham's significant natural asset and key regional strength of Horsham, providing the basis of establishing the town settlement in the 1830's. The Wimmera River and Wetlands also provided a bountiful homeland for the indigenous groups of the area for thousands of years. This project builds on this strength creating a new active public realm destination with linkages to the central activity district and existing open space and recreational facilities.

The development of the Riverfront precinct is Stage 1 of the City to River Masterplan with the following principle objective:

To activate, connect and add value to the Riverfront Precinct to establish an iconic community, recreation and tourist destination. It aims to address the following statement;

" How do we make the Wimmera Riverfront an even more inviting place for everyone now and for generations to come?"

Wimmera Wetlands

Horsham lies in the centre of the internationally significant Wimmera Wetlands region and this project and development of the Riverfront is seen as an educational tool. Signage and information within the design can provide for a better understanding of the history and hydrology of the Wimmera River system, implementation of sustainable drainage systems and connection between water play and an improved knowledge of water management and preservation.

Cultural Heritage

The productivity of the Wimmera region formed the basis for settlement in the area from the early 1800s but First Nations people possess an extensive history of living on this land and connection and relationship with the fertile wetlands and western plains. This cultural heritage and history of the region will be interlinked with the development of the Riverfront and emphasised through design and artwork elements.

Water Sensitive Urban Design (WSUD)

As part of the overall strategies for this landscape Masterplan, we are seeking to improve and integrate water sensitive design measures to align with a Water Sensitive Cities approach with the following objectives:

Healthy - making the best of our local environment

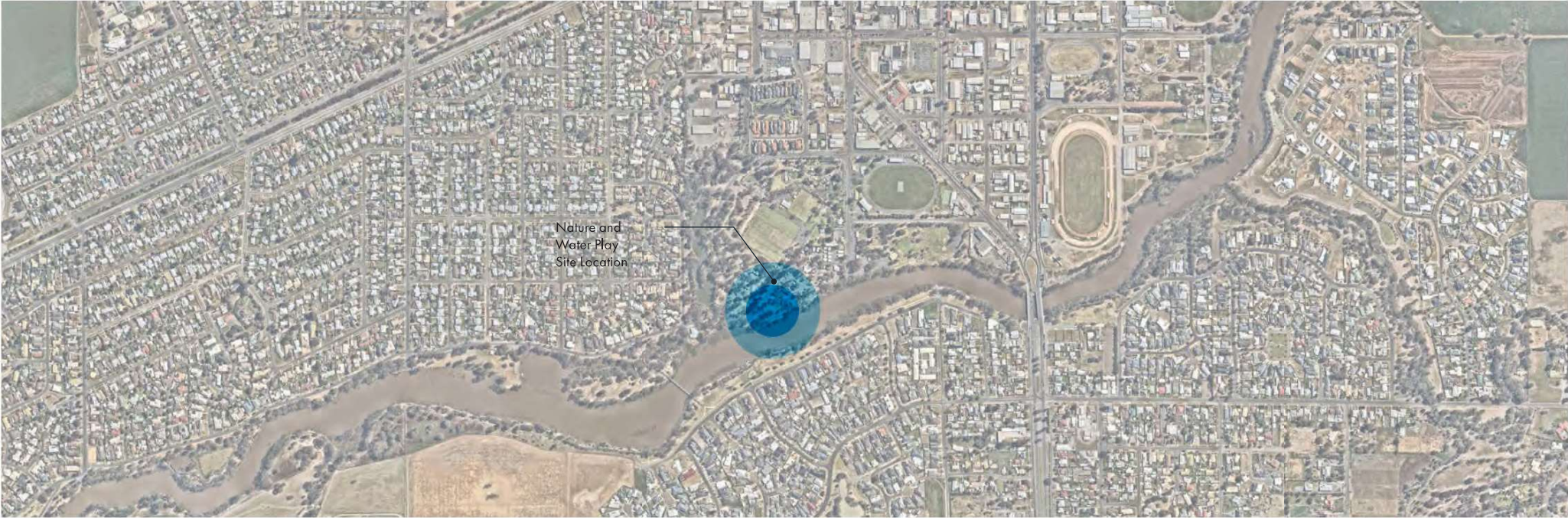
- 1. To support year-round passive and active recreation
- 2. To protect and enhance local waterways
- 3. To support urban biodiversity

Prosperous - making changes to improve our city

- 4. To improve the amenity of the urban environment
- 5. To create stronger connections between communities and nature
- 6. To improve the functionality of urban places
- 7. To drive increased tourism and visitation

Resilient - making sure we are ready for challenges

- 8. To make use of alternative water supplies locally to prepare for drought
- 9. To reduce the impacts of flooding
- 10. To provide pleasant and cooling environments during hot weather



Funding Application - Design Scope

Riverfront Development

The Horsham Rural City Council are developing the first stage of the City to River Masterplan adopted in 2019, with concept development of the Stage 1 Riverfront precinct currently underway. As part of that concept, Tract Consultants are working on the development of the plans, engagement and liaison with key stakeholders represented by the Community Reference Group (CRG) and Council project team members.

A key part of the Stage 1 works is the development of a regional level attraction in the form of a Nature and Water Play facility on the riverfront – refer Masterplan below.

This facility is seen as a key feature in the development of the Horsham Riverfront and recreational open space within the City to River Masterplan area and a major attraction designed to create interest and attract visitation to the region and for use and enjoyment of Horsham residents, and visitors from the region and from further afield.

Design Concept

The Play Park is a key part of the landscape masterplan for this riverfront precinct, providing a new significant community-based recreational facility and attraction to this part of the open space network in the city of Horsham and adding to the impetus of connecting the City to the Riverfront as part of the aspiration of the C2R Masterplan. The location has been determined as part of the overall development of the riverfront precinct and relates closely to adjacent existing elements and facilities – Rowing Club, carpark and slipway, Botanical Gardens and Caravan Park, as well as access from the shared pathway along the riverfront. The nearby Adventure Island includes additional play and active recreational facilities and a pedestrian and cycle connection across the Anzac Bridge to the South Bank.

Relationship to Country

The underlying theme for the Nature and Water Play Park is based on the relationship of the Wimmera River and the broader Wimmera Wetlands, patterns etched into the landscape over time, articulating a story of water – ebb and flow - and its' role within this region. Integration of stories and artwork from the local Barenji Gadjin Land Council is being developed further and will be included in the final landscape design.

The design concept is a reference to the Wimmera River

- a system of flood plains and ephemeral pools that are formed through the meanderings of the river through the landscape – pools and depressions in the landscape that intermittently fill up and drain. The treatment of these reflects the types of micro-ecosystems that develop around these pools when water levels drop, and include a series of depressions along a water course that have play elements in them- dam wall/weirs, pools and rapids, as well as the river banks and associated vegetated areas.

Water Play Layout

The Water Play layout includes areas designed for different age groups, with some physical separation and age-appropriate elements for more interactive group or active play. Dry and wet sand play areas are provided as part of the design and offer a range of all-season play opportunities. Shaded seating areas for parents and carers, as well as seating walls and logs / boulders to partially enclose the play space are provided and located to define and enclose the play space from adjacent circulation pathways and vehicular areas / carpark. These walls and barriers provide some physical containment for smaller children to separate them from the river edge.

Nature Play

The 'Creek' is interwoven through an undulating, mounded landscape of open lawn, massed groups of groundcovers and shrubs, and mulched play areas with timber sculptures, climbing frames and poles. The Playground is shaded by shade structures and a canopy of existing and additional native shade trees, with grassed areas and pathways providing access and circulation options and additional play opportunities. A contained sand play area for younger children and timber climbing and scrambling items provide additional options for play and use during colder months when the water play elements may be less frequently used.

Safety and Surveillance

Layout and location of the Play area has been designed to allow clear vision and oversight by parents and carers, with separation from more active circulation routes and the river. Designation and suitable features for different age groups have been provided to facilitate multiple uses.

Universal Access

The layout of the riverfront development and specifically, the Play facility satisfy Sports and Recreation aspirations and guidelines for universally accessible recreation facilities. The design of pathways and circulation, grading to suit step free access and provision of adjacent parking, including DDA dedicated spaces, is included to ensure access for all users, regardless of mobility, age or ability. Where steps are included, adjacent graded walkways are provided.

In the future, an access route is planned from the riverfront development and Water Play into the Gardens and linking to the existing playground.

The Shared Pathway is widened to 3 metres through the project site to allow for higher levels of traffic and increased safety with pedestrians, joggers and cyclists using the path at various times. This increased width is proposed to be carried through the remainder of the Riverfront upgrade precinct.

Signage

Safety signage related to water play and resuscitation will be provided at key locations within the Facility, in accordance with Pool Safety standards, along with 'Rules of Use' to cover safety and consideration of other users. General Access signs at the entrance from Eastgate Drive and parking regulations will also be provided, along with directional signage to other attractions and facilities along the Riverfront.

Ecologically sustainable design

The project aims to deliver sustainable and high quality, well designed open space and recreational facilities as a public realm asset to the community, that contributes to health and wellbeing of users, maximises suitability and function of Play and provides an equitable and useful recreational facility. The design seeks to maximise the benefits of the locality and surroundings, capitalising on the adjacent river and existing open spaces and recreational facilities, creating a well connected, inclusive and healthy resource for the community. The layout allows for retention of all existing trees unless considered dangerous or unsuitable by the Council Arborist. Improvement and connection to the existing network of paths provide various modes of access – pedestrian, cyclists, scooters and vehicles, with parking including DDA dedicated spaces.

The landscape design works with existing contours and current infrastructure – paths and carpark areas – and will integrate predominantly native planting to reduce water use and maintenance.

As outlined in WSUD section above, the design prioritises water management and effective use. Water from the play elements is directed to infiltration 'rain gardens' within the planting design. Water use will be monitored and maintained at suitable minimal levels.

Runoff from carpark and hard paved area will be directed into rain gardens and soft landscape to provide passive irrigation of adjacent planting.

An increase in flowering shrubs and trees within the new planting will increase biodiversity of the riverfront, as well as providing food and habitat for fauna and insects, with a predominance of indigenous planting.

Water Play System

The Water Play elements are linked to Mains potable water supply and drained into planted rain gardens and then into the river. The provision of interactive water play elements is developed within a contained and linked series of 'pools' or depressions along a defined ephemeral 'Creek'. A number of proprietary water play elements are included in the design at key locations to provide various water interaction, including jets, sprays and manually driven water, as well as a more interactive system of adjustable dams and weirs allowing user adjustment and collaborative play within smaller groups. In addition, a more open paved area with a number of pop-jets will provide for more active play and interaction by older children and groups.

Shelters and Furniture

An accessible toilet/change room is included for the Play Park and is positioned to allow ease of access for all users. Cycle racks are provided for users of the Play Park and associated recreation areas and the shared pathway network.

Provision is made for seating, barbecues and shelters for parents and carers to sit and supervise play in the Facility.

Context

Tract Consultants were commissioned to develop the Stage 1 Concept Development plans, following on from our work on the C2R Masterplan. We have participated in additional engagement and coordination with the HRCC Working Group and the Community Reference Group (CRG) under the guidance of Mosaic Lab and are developing the Masterplan concept to integrate community feedback received from earlier community consultation undertaken in 2019/20.

Definition of the Stage 1 boundary has been undertaken by HRCC in consultation with landowners and key stakeholders and represents the most effective extent of work for this first stage of development and ultimately, construction of the works, intended to commence in late 2020.

The initial Concept Masterplan (below) builds on the intent of the C2R Masterplan and captures additional consultation undertaken. Key elements and sub-projects have been identified as part of the initial cost planning and incorporated into the design to achieve the overall goals and objectives of the C2R Masterplan and represent the best value for money within this initial stage of works. These are described in the Legend and further information provided in the enlarged plans on the following pages.

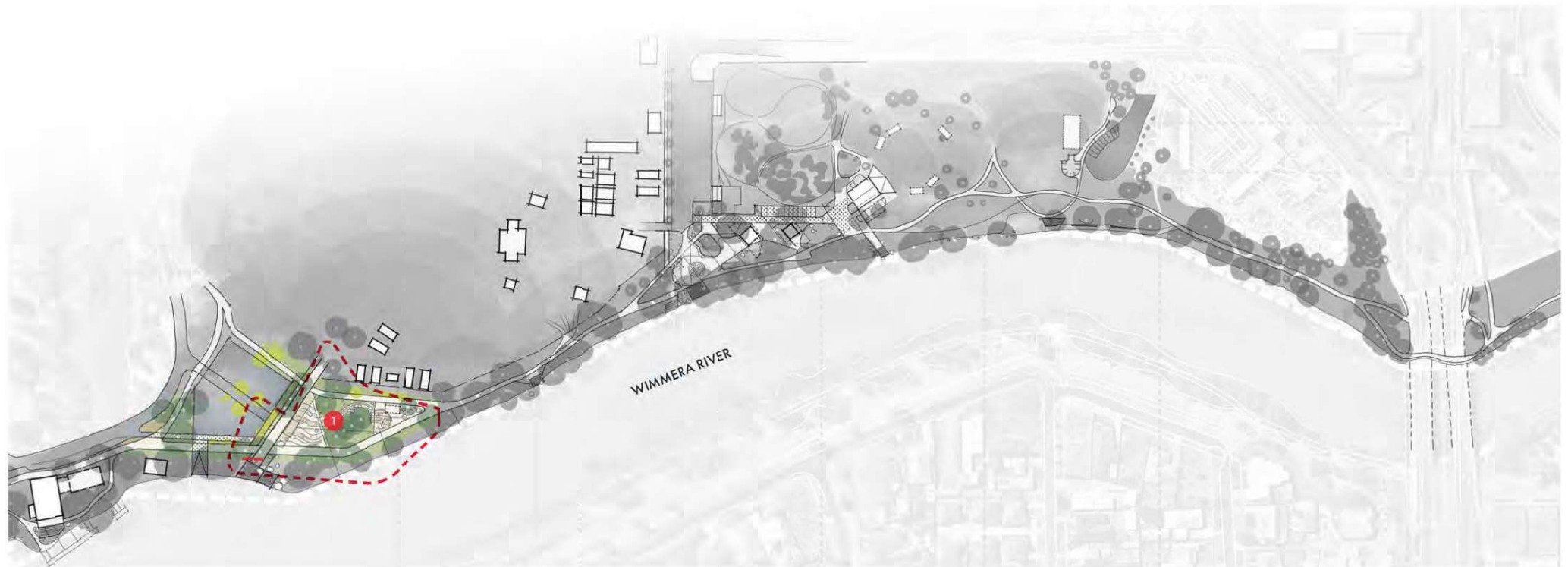
Key - location

- 1 Regional Water Play destination, shelters, historical and cultural interpretation

Precinct Wide elements

A number of elements will be applied to the extent of the Stage 1 works to ensure a comprehensive and coordinated upgrade of basic elements and integration of a consistent approach to the project development. These elements include:

- Public Art elements, interpretive, storytelling, wayfinding, play
- Pedestrian lighting replacement (unit)
- Walk/cycle path upgrades - increased width and defined edging
- Furniture (unit) - seating at 50m intervals and at nodes
- River bank remediation (l/m) - to be determined in conjunction with WCMA/ DELWP
- Wayfinding and signage



Stage 1 Concept Masterplan

1:2500 (A3) 0 20 40 100

Nature and Water Play Park - Nodal Diagram

Nature Play

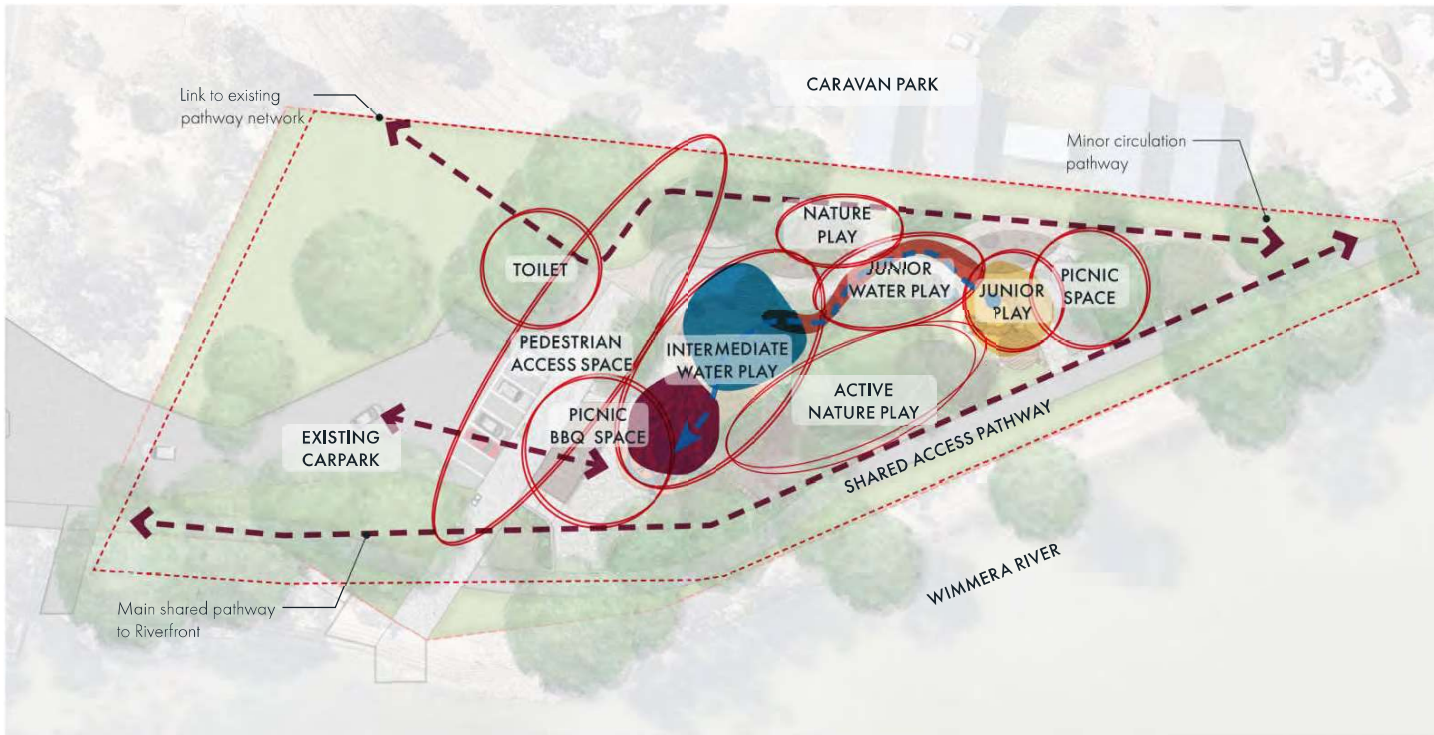
- Integration of nature based play elements within the landscape zones of the play space
- Climbing and clambering sculptural pieces set into the mulched play zones
- Log climbing structure for active use - positioned adjacent to intermediate water play
- Reference to riverine landscape - reeds and trees along the watercourse

Waterplay

- Interactive Water Play destination /facility with ephemeral pools, spray-jets and imaginative play opportunities
- Indigenous story embedded into landscape and reference to heritage and Wimmera River country
- Reference to Wimmera Wetlands - internationally recognized Ramsar sites and deep indigenous significance to cultural heritage and local settlement history

Conceptual zoning

The main play areas have been structured to reflect the features of the River floodplain they sit within. The play space includes a combination of nature and water based play spaces. Four water zones including; River beach, Creek, Flood plain and Tributary mimic the character of these landscape features within the waterplay park. Areas of bark mulch integrating natural timber play elements, sculptures and climbing frames are distributed either side of the water course, alluding to the Wimmera River banks and natural ecosystem.



Landscape plan



Legend

- | | | |
|--|--|--|
| 1 Main Pedestrian Plaza
- exposed aggregate concrete (4m wide)
with 1.5m compacted gravel pathways | 10 Picnic Shelter
- with exposed aggregate paving
and picnic benches | 18 Drains to centre outlet with ball valve |
| 2 Main shelter
- Timber decking with shelter, contains
picnic table, seating and barbecue | 11 Picnic table and benches | 19 Existing trees |
| 3 2m compacted gravel footpath | 12 Insitu concrete curved seating wall (600mm
wide) around gravel open space | 20 Proposed trees |
| 4 Extend existing carpark and make good asphalt
with 150 x 150mm flush concrete edging | 13 Concrete insitu raised wall to 450mm
high x 300mm wide - off form finish | 21 Curved broad concrete steps |
| 5 Gravel open space with feature tree | 14 Concrete insitu curved seating | 22 Accessible Public Toilet /
Change Room |
| 6 Pebble creek surface treatment
with coloured banding | 15 Class 2 recycled hardwood logs in concrete
footing . 400-500mm high x 250mm diameter.
Spacing to achieve 100mm gap between logs | 23 Asphalt shared pathway (3.5m
wide) with dashed centre line |
| 7 Water play ground surface | 16 Granite boulders | 24 Flat topped 'islands' defining tributaries |
| 8 Raised timber platform (+ 450mm) | 17 Water Play 'pooling' area | 25 Softfall mulch to play areas |
| 9 Sandpit with play elements | | 26 Cycle racks |

Water Play

- P1 Pole-top sprinklers
- P2 Long Handle Pump
- P3 See-Saw Pump
- P4 Water Switch
- P5 Rectangular flap gate
- P6 Water Dam
- P7 Mushroom Pump
- P8 Hand pump
- P9 4 no. simple spraying heads

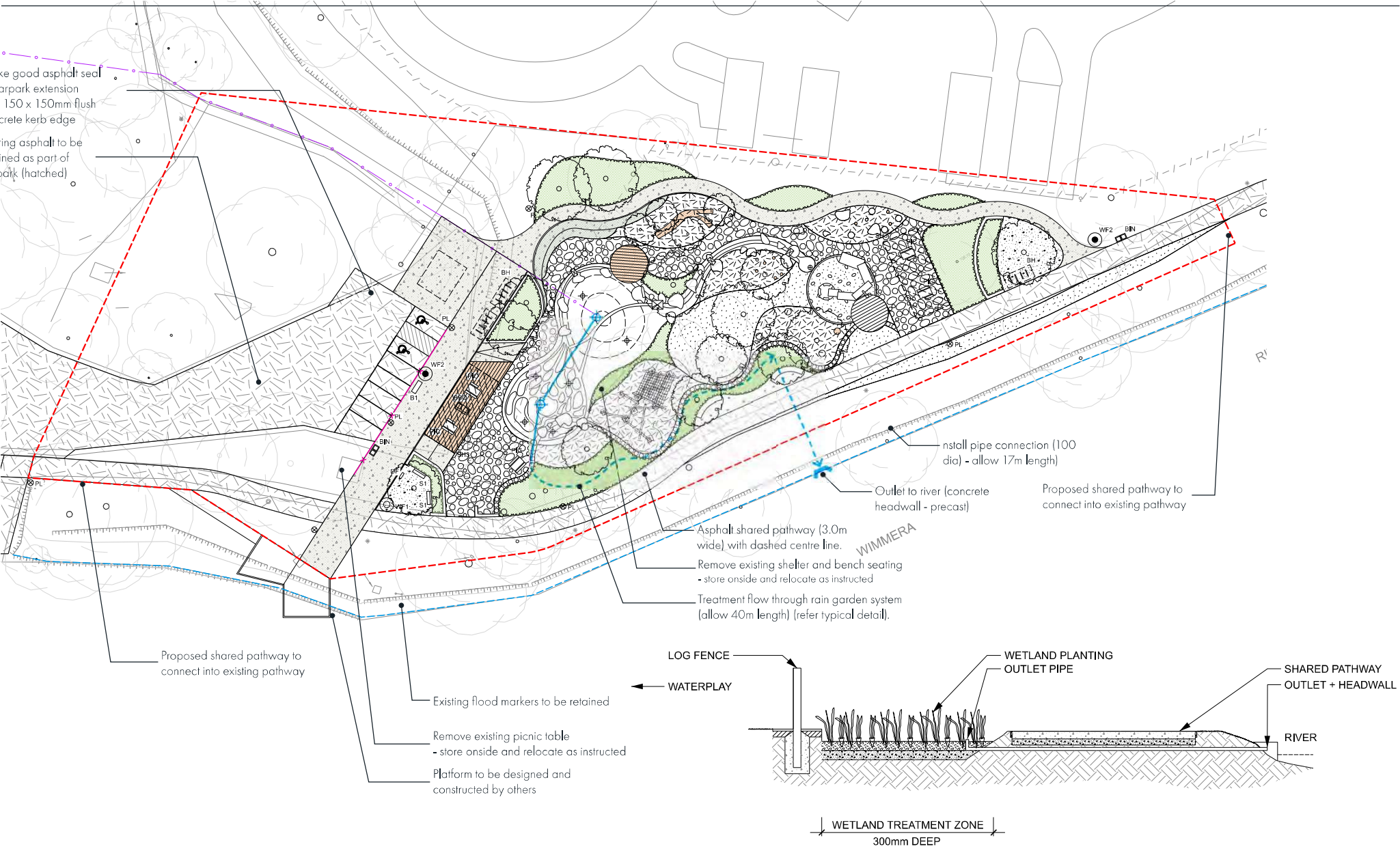
Nature Play

- N1 Climbing Frame (Type 06)
- N2 Timber animal sculptures
- N3 Log Poles (reeds)
- N4 Climbing Log

1:500 (A3)



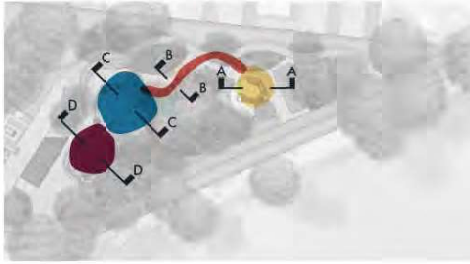
Layout Plan - retention & removal



Typical Section

1:500 (A3) 0 5 10 20

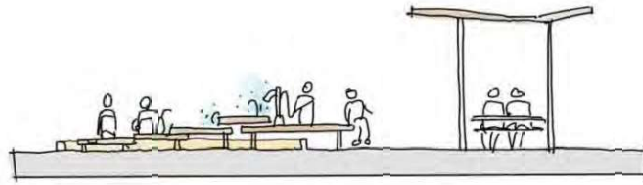
Water Play Elements & Typical Sections



Key plan

River Beach zone

- All ages play area (1+)
- Wet 'mud' play with sand
- All seasons play
- All abilities access from hardstand



Section A

Creek zone

- All ages play area
- Easy mushroom pump (3+)
- All seasons play opportunities



Section B

Flood Plain zone

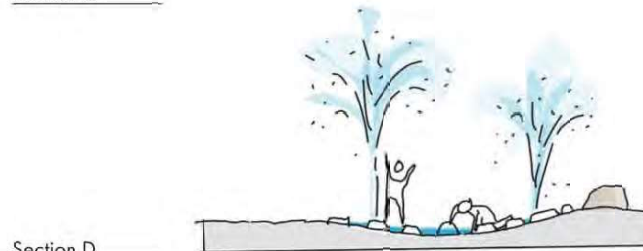
- Intermediate age play
- Physical activation pumps
- Water direction options with switch gate



Section C

Tributary zone

- All ages play
- Shallow water fill option with ball valve



Section D



Hand pump



Raised waterplay elements



All abilities access



Wet 'mud' play



Mushroom pump - 3yrs+



Creek bed and pooling area



Wedge gate



Switch gate



Pole-top Sprinkler zone



See-saw and other physical sprinkler pumping



Spinning Pole-top sprinkler



Spraying heads



Water tributaries



Ball valve

Precedent Imagery



Materials and Furniture

Furniture and Shelter



Landmark - Wyalla Series
Roof shelter



Landmark - Flinders Setting Series
Picnic Bench



Landmark - Flinders Setting Series
Park Bench



Landmark - Furry Premium
- Double with two plates
BBQ



Landmark - Single Bicycle Stand
- Stainless steel
Bike Racks



Landmark - Avenue Surround Series
- Avenue bin surround, both
circular opening (recycling
and standard opening)



In situ curved concrete seating



Toilet Block
Landmark Coastal

Materials



Waterplay creek bed



Australian hardwood timber
seating and decking



Feature trees



Mass planted garden beds



Water



Compacted Gravel



Waterplay surface



Exposed aggregate
concrete coloured paving

Nature play



Timber logs - used for play
and an informal barrier



Sandpit

Contact Tract

Melbourne

Level 6, 6 Riverside Quay, Southbank
VIC, Australia 3006
(03) 9429 6133
melbourne@tract.net.au