

ALMA TRELOAR
PUMP TRACK &
SKATE PARK
CONCEPT


Cardinia

 COMMON GROUND

THE PROJECT

The Pump Track and Skate Park at Alma Treloar Reserve are being developed to cater for the youth of Cockatoo and the growing demand in mountain biking and skating in the greater Cardinia region. It will be a facility which caters for the youth within the community through the provision of a unique and emerging activity which is complimentary to surrounding youth facilities.

The following report outlines the design process and outcomes for the Alma Treloar Reserve Pump Track and Skate Park Concept.

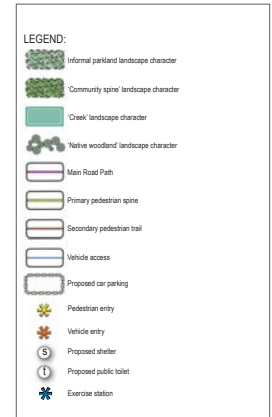


PLANNING BACKGROUND

Through the 2018 master planning process for the Reserve, it was decided that a pump track should be constructed at the southern end of the reserve, with access from Pakenham Road and the proposed jogging track and new skate infrastructure provided adjacent the existing skate bowl, to allow and support entry level skate park users, combined with the addition of a skate park shelter.

Designed within the context of the Alma Treloar Master Plan these facilities will play a key part in establishing Alma Treloar Reserve as a community hub.

- NOTE:**
- 1 Existing public toilet to be removed. Flat space is to be retained as overflow car parking to offset any loss of car parking between bowls and tennis courts - with potential to be formalised if required.
 - 2 A continuous pedestrian circulation spine is to be developed from the northern to southern edge of reserve, connecting all key activity areas. This will involve the construction of a new path from the Ash Wednesday Bushfire Education Centre (AWBEC) to the eastern corner of the southern tennis court, where it will connect into the existing path. The new connection may involve a range of materials and forms.
 - 3 A new path connection will link the new circulation spine (refer 2) and the existing road crossing, which will link Alma Treloar Reserve to the newly constructed Fairbridge Lane. McBride Street pocket park (refer 10) and Cockatoo-Gembrook Trail.
 - 4 Existing playground to be removed and this area to be enhanced as a quiet passive space focused on the qualities of the Cockatoo Creek corridor. The existing fitness equipment will be retained, but relocated elsewhere when the time comes for its replacement. The existing shelter will be retained and enhanced with new seating.
 - 5 This area will be developed as a key community focus through:
 - The retention of the existing community gardens.
 - The retention and upgrade of the existing community amphitheatre.
 - The construction of a new central playground, with shade sails.
 - The installation of new shelters, including one associated with the amphitheatre stage.
 - The installation of new barbecues, seating and drinking fountains.
 - The retention of a large open grassed space suitable for events and informal play.
 - 6 A new BMX 'pump track' is proposed at the southern edge of the reserve, with access from Pakenham Road and the proposed jogging track.
 - 7 Dog off leash activity will be retained in its current location. Separation from the proposed community space provided by the existing car park will be enhanced by new car park fencing and planting. Shelter, seating and water for dogs and owners will also be provided. Dog agility equipment to be installed in avenues to enable recreation for events.
 - 8 The existing open grassed space linking AWBEC, the Mer's Shed, The Cockatoo Complex, The Cockatoo Bowls and Tennis Club, and the Cockatoo Child Care and Kindergarten currently lacks a defined landscape character. It is proposed to enhance this space through coordinated planting of deciduous trees within a grassed area to create a 'wedge spine' to unify the various adjacent uses. The landscape will have a welcoming and open character, with an emphasis on autumn colour contrasting with the surrounding native woodland and riparian forest.
 - 9 The existing eastern edge of the reserve, particularly where it is steep, is to be planted with native tree species to create an open native woodland. Care will be taken with planting to ensure important views to activities, spaces and buildings are maintained.
 - 10 The construction of the McBride Street pocket park, the formalisation of the path to Fairbridge Lane and the construction of the proposed supermarket will create a new focus to the Cockatoo Town Centre. These new spaces will connect directly with the enhanced pedestrian circulation within Alma Treloar Reserve.
 - 11 Pedestrian entries into Alma Treloar Reserve will be clearly identified and will be enhanced with signage directing visitors to key features within the Reserve.
 - 12 Northern pedestrian access into Alma Treloar Reserve from McBride street linking Reserve to St Luke's Church, Puffing Billy and Eastern Dandenong Rail Trail. Access has already been enhanced as part of the Eastern Dandenong Rail Corridor.
 - 13 Signs to provide access down existing batter to exercise circuit. Extent of signs subject to detailed design.
 - 14 Exercise / jogging circuit around southern open space. Exercise stations subject to detailed design.
 - 15 Provision of new skate infrastructure to allow and support entry level skate park users, combined with the addition of a skate park shelter.
 - 16 Modify car park layout and fence alignment to improve view lines and public safety. Any loss of car parking will be offset by additional car parking to the north of bowls facility.
 - 17 Retain existing wetland stormwater WSUD ensuring access for ongoing maintenance.
 - 18 Retain existing habitat and community interaction area between car park and Cockatoo Creek.
 - 19 Provide light weight fencing segments along creek to protect habitat, enhance safety and minimise erosion of the creek bank, while leaving strategic breaks in the fence to allow access to the creek environment.
 - 20 Provide additional fencing and planting between the car park and off-leash dog area. Provide shade planting for dogs and owners.
 - 21 Develop way finding signage across the reserve.
 - 22 Allan Bailey Hall to be altered to include externally accessible public toilet.
 - 23 Provide seating for informal viewing of tennis.
 - 24 Investigate court slumping and management of vegetation to edge of courts and bowling green.
 - 25 Assess court lighting and investigate potential upgrades.



Alma Treloar Reserve Master Plan, Cockatoo
Landscape Master Plan

17-2261 LKPG05
November 2018: V8
Scale 1:900@A1



THE PROJECT SITE

As identified in the Master Plan, the proposed Pump Track sits in the southern end of the Reserve. The site sits at the base of a significant slope and will be accessed via the proposed primary pedestrian spine which links the stair entry from Pakenham Road to the dog park and carpark. To the west of the site is Cockatoo Creek and riparian vegetation which will be fenced to protect habitat. There is also a sewer line running parallel to the creek.

The proposed Skate Park additions are located south of the existing skate bowl and will again be accessed from the primary pedestrian spine. Informal entry to the existing skate bowl is occurring from the north west and off of the existing retaining wall.



Pump Track site



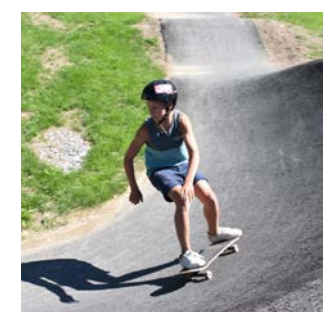
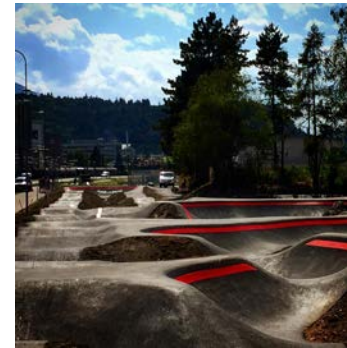
Pump Track site



Skate Park site

REFERENCE IMAGES

Pump tracks and skate parks have a variety of different options in terms of layout and features. The images presented here show some of the variety and have been used as reference in development of the pump track and skate park concept for Alma Treloar Reserve.

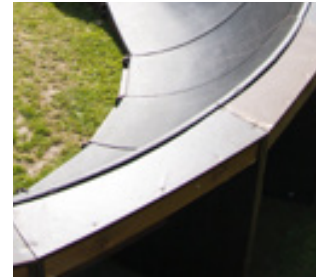


PUMP TRACK SURFACE MATERIAL

Pump tracks can be constructed with a diverse range of surface materials. Each material has advantages and disadvantages which are outlined below. While the consultation results indicated a preference for a combination of surfaces, due to the larger user base and lower ongoing maintenance it is recommended that the Alma Treloar Pump Track is constructed primarily with an asphalt surface. A range of feature materials could also be incorporated into the design.



NATURAL



MODULAR

ALMA TRELOAR PUMP TRACK



ASPHALT



CONCRETE

ADVANTAGES

- Low material cost
- Involvement of local volunteers
- Flexibility (layout and design can be changed any time)
- Natural look and feel
- Construction possible in bushland
- Softer surface

- Unskilled labour
- Relocatable
- Suitable for bikes, skateboards, inline skate, scooters

- Moderate cost
- Low maintenance, durable & sustainable
- Low rolling resistance
- High traction
- Year round usability in any weather
- Suitable for bikes, skateboards, inline skate, scooters
- Consistent surface quality
- Neat look & resistant to vandalism

- Durable, sustainable
- Low rolling resistance
- Year round usability in any weather
- Surface structure choice (smooth, grippy, rough)
- Colour choice
- Usable for bikes, skateboards, inline skate, scooters
- Resistant to vandalism
- Neat look

DISADVANTAGES

- High and frequent maintenance
- Only usable in good weather conditions
- Suitable for off road bikes only
- Susceptible to vandalism and damage
- Typically falls into disrepair
- Often looks dilapidated

- High cost
- Moderate maintenance
- Highly susceptible to damage and to vandalism
- Damage irreparable
- Limited customisation

- High material cost
- Abrasive surface
- Skilled labour

- High construction cost
- High material cost
- Abrasive surface
- Skilled labour

CONCEPT

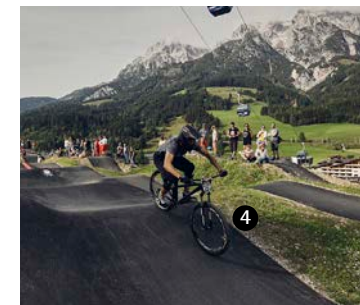
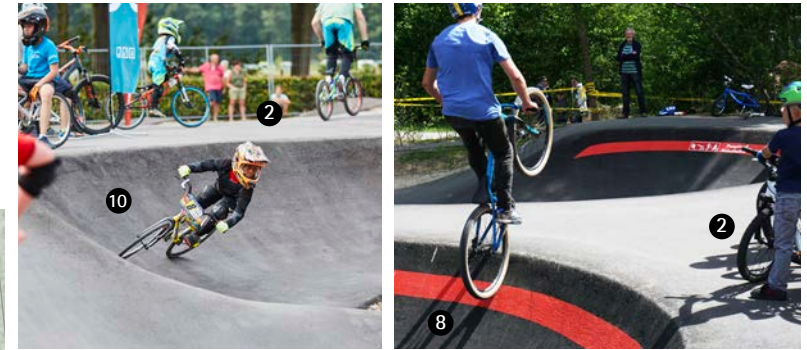
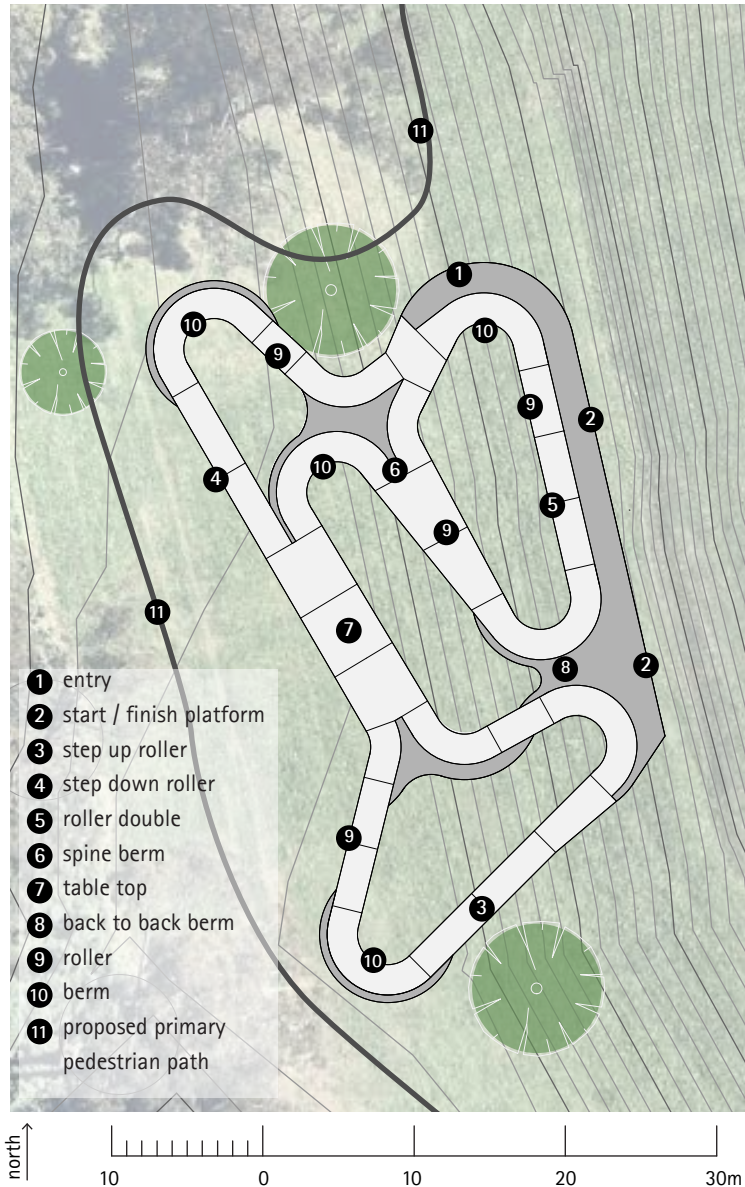
The Alma Treloar Pump Track has been designed to cater for a range of user types and experience levels. It features 600sqm of asphalt riding surface which will provide options for riders and a non repetitive experience.

The design includes a single entry and exit point to manage risk with entry point signage. A large platform and associated start ramps connect to the entry and provide a flat area for users to socialise between loops.

The track incorporates a number of rollable features such as table tops, doubles and step up/downs. These features will create interest for new users and challenge for experienced users.

The top feature preferences identified in the consultation including berms, table top, rollers and back to back berms have all been incorporated into the design. The community also expressed a strong desire for spaces to socialise and spectate which are provided for at the entry point, rest platform and on the slope to the east of the track.

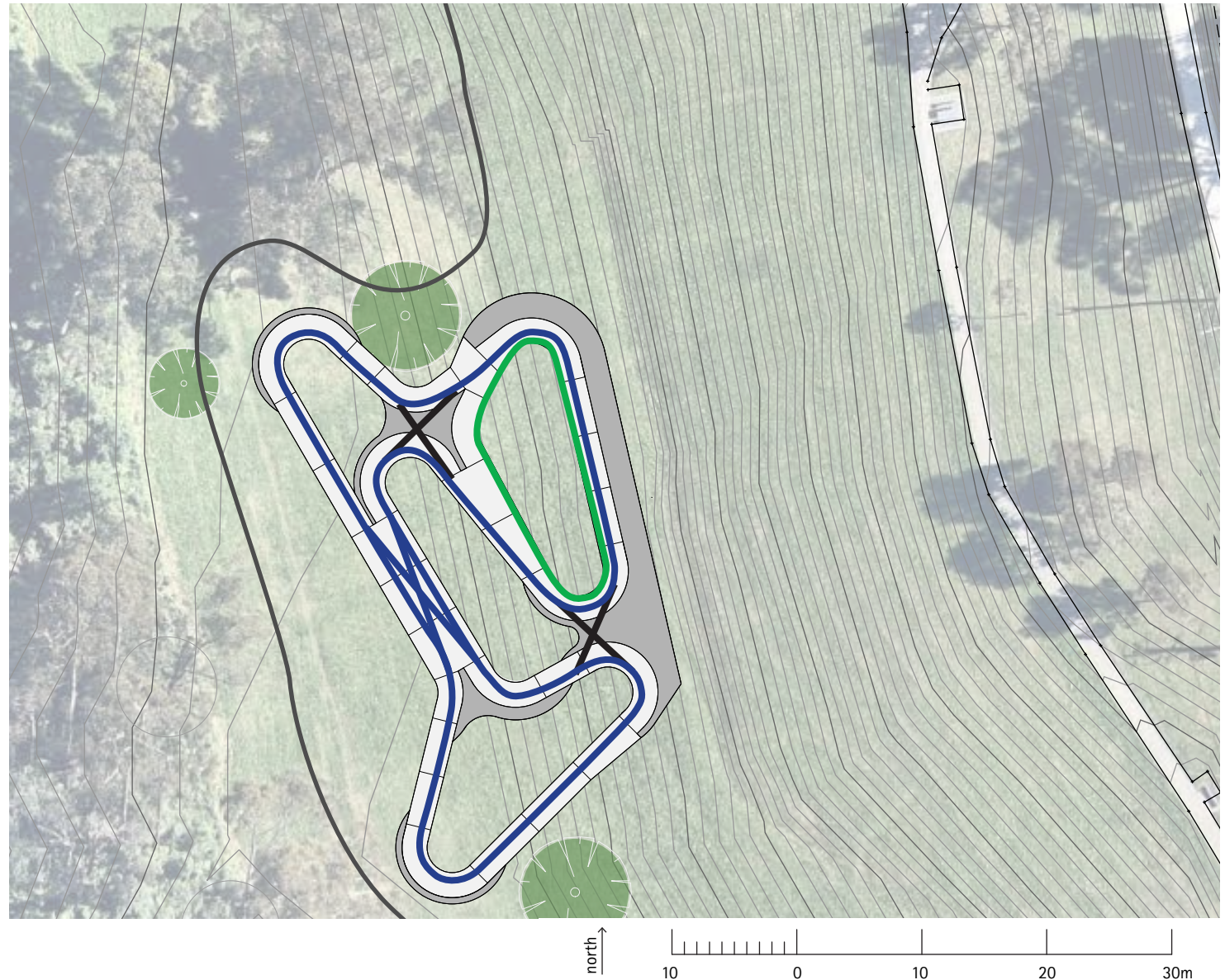
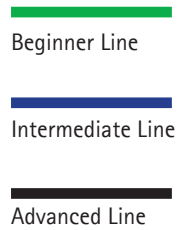
The proposed pump track will be cut into the sloping site, setting the eastern edge of the track into the hill. To the west the pump track will be raised and expressed within the landform. The pump track has been designed to maximise the slope of the site with the start platform cut into the slope. This will ensure viewsheds across the site are maintained and allow for spectators to see the whole track from the hillside east of the track.



Precedent images of pump track features

CONCEPT

The Alma Treloar Pump Track has been designed to be an engaging experience for users of all levels and to allow users to progress their skills. In terms of progression integration the community indicated they would like to see a pump track that catered for all abilities. Taking this into account while also considering safety for younger beginner riders a beginner loop has been designed into the track which can also be ridden as part of a larger loop for intermediate and advanced riders. The design features a range of intermediate and advanced lines including optional transfers between features for intermediate and advanced users. Most importantly, the track has been designed to allow new users with little confidence to navigate the track and gradually increase their abilities. The image on this page demonstrates the potential alignments users can take.

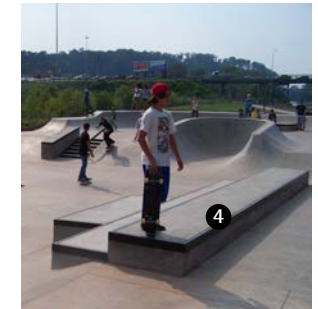
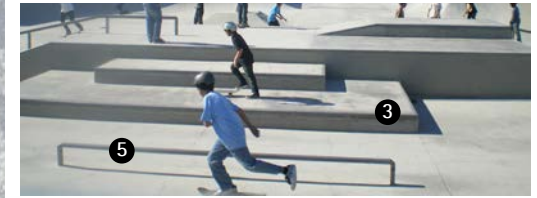
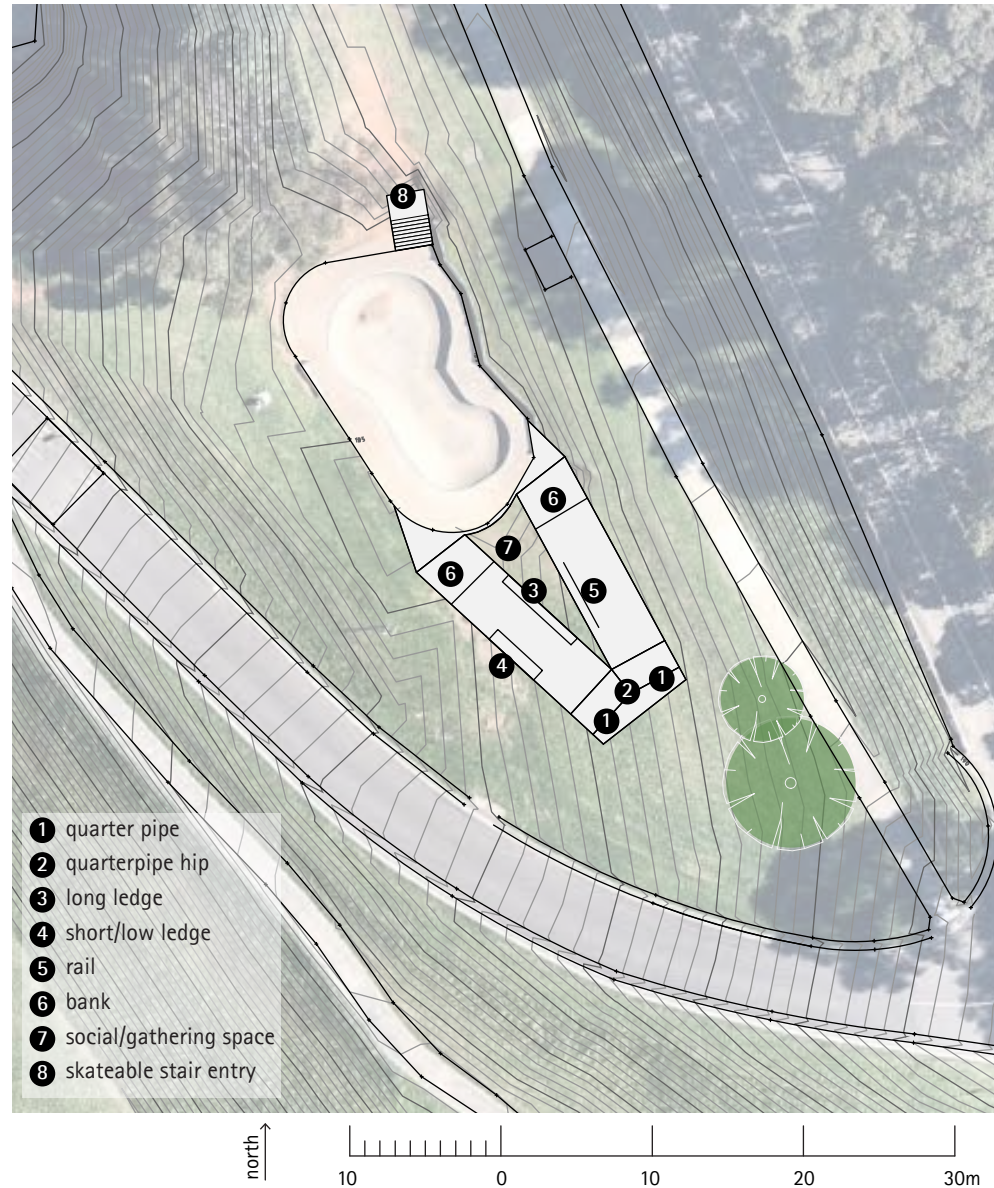


CONCEPT

The Alma Treloar Skate Park additions have been designed to cater for a range of user types and experience levels. It features 120sqm of concrete riding surface which will provide entry level options for beginner and intermediate riders and compliment the existing advanced skate bowl.

The design includes quarter pipes leading down into ledge and rail options and finishing with banks that lead into the existing edge of the bowl. These features allow for different transition options catering for beginner and intermediate skaters. For more advanced skaters the design also allows for optional run-ins to the bowl. The stairs at the northern end will be skateable, providing a more formal entry option that is still fun. The existing retaining wall will also be upgraded to tie in with the new additions.

The top feature preferences identified in the consultation including rails, different transitions and banks have all been incorporated into the design. The community also expressed a strong desire for spaces to socialise and spectate which are provided for surrounding the skate park and in the space between the two runs.



Precedent images of skate features

CONCEPT

The topography between the skate park and the pump track presents an opportunity to include a unique feature that is not often seen in Australia, a snake run. A snake run is a long winding purpose built path which includes features such as hipped banks, berms and rollers.

The location of the pump track at the base of a hill presents an opportunity to include a snake run which would also help to manage potential conflict with pedestrians using the proposed primary pedestrian path. With a snake run riders would only be using the proposed primary pedestrian path to get back to the top of the hill.

Note, this is outside the current scope of works for the skate park and pump track, but could be considered as a second stage of works pending funding.



Precedent images from Woodward Pennsylvania

BENCHMARK PROJECTS

The following tracks provide examples of benchmarks for the Alma Treloar Pump track project.



ONE71 BALDIVIS, BALDIVIS WA

- Pump track located in family oriented recreation precinct in residential estate, One71 Baldivis
- Co-located with nature playground
- Low/no maintenance asphalt surface
- 35m x 35m space
- Approx 300m² of total track
- Beginner to intermediate bike users
- Receives high visitation from scooters, skateboards and bikes



SHEPHERD'S BUSH RESERVE, KINGSLEY WA

- Premier pump track in Perth's Northern Suburbs
- Redeveloped a dilapidated BMX jump site
- Added to a highly visual recreation precinct connected to existing bikeways and kid's cycle safety track
- 30m x 60m space
- Beginner - Advanced Level Pump Track
- Approx 250m total pump track area
- Intermediate and Advanced Jumps Tracks
- Approx 120m total length of Jumps Tracks
- Asphalt surfaced construction
- Jumps Track with Asphalt surfaced lips and clay landings
- Features include rollers, jumps, berms, transfers and hips all accessed from tiered start ramp



CALEYA, TREEBY WA

- Designed to incorporate two long roller straights
- Surrounded by cycle safety track
- Constructed on greenfields site
- 60m x 40m space
- Beginner - Advanced Level Pump Track
- Multiple lines and transfers
- Approx 550m total pump track area
- Features include rollers, jumps, berms, transfers and hips all accessed from tiered start ramp