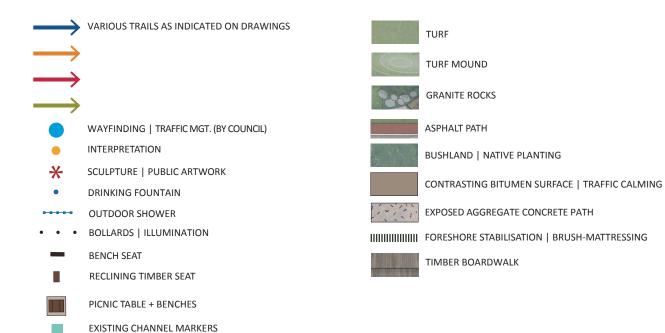
RIVERMOUTH PRECINCT DEVELOPMENT CONCEPT PLAN Adopted at 19 June 2018 Ordinary Meeting of Council (Res No: 050618)



Legend



PHOTOGRAPHS PROVIDED IN THE REPORT ARE INTENDED FOR REFERENCE AND IDEA PRESENTATION PURPOSES ONLY.

Recommended Planting Palette



AGONIS FLEXUOSA (PEPPERMINT)



LEPIDOSPERMA GLADIATUM



FICINIA NODOSA



ANIGOZANTHOS FLAVIDUS



BEAUFORTIA SPARSA



XANTHOSIA ROTUNDIFOLIA

Recommended Material Palette



STABILISED CRUSHED LIMESTONE



EXPOSED CONCRETE AGGREGATE



COMPOSITE TIMBER MATERIALS (LOW MAINTENANCE / DURABLE)



ASPHALT ROAD



GRANITE BOULDERS



BRUSH MATTRESSING | STABILISATION





1.0 Introduction

The Denmark Rivermouth Foreshore represents an area of natural, recreational and tourism significance to the Great Southern region. The area is a hub for a variety of activities including caravan park accommodation, commercial fishing, recreational boating, fishing and public recreation. An opportunity exists to enhance the existing infrastructure and natural landscape through considered site development and rehabilitation.

Entry to the Rivermouth Foreshore and Rivermouth Caravan Park is through a junction of several existing trails including the Mokare Heritage Trail, Bibbulmun Track, Karri Walk Trail, Denmark - Nornalup Heritage Rail Trail and the Munda Biddi Trail. This area forms a point of visual significance, and a natural Node / Hub meeting point where the entry meets the Heritage Railway Bridge.

Existing public facilities onsite include limited carparking, boat trailer parking, boat ramp, fish cleaning station, toilet block, non-permanent seating and boat moorings and jetties for commercial, recreational and tourism boating. The majority of existing facilities are situated in appropriate areas, however would benefit from upgrading and design development in keeping with the natural environment.

Enhancing the integration between the Heritage Precinct, the Rivermouth Foreshore and the existing Gazebo and BBQ area adjacent to the Heritage Railway bridge with a future Trail Node / Hub would also benefit the overall development.

While the existing natural layout, contours and progression of the foreshore allows for development and rehabilitation with minimal disruption to the existing landscape, there is significant weed encroachment into riparian vegetation. In addition, the Paperbark trees along the edge of the foreshore towards the Heritage Railway Bridge require protection. Areas of erosion along the foreshore require stabilisation, as well as access and usage formalisation to prevent further erosion.

The Rivermouth Caravan Park facilities adjacent to the foreshore are currently in the process of design development for a new building, with a public access shop / cafe. Design guidelines for the interface between the new facility, and the Rivermouth Foreshore Development Plan, will be an important aspect of the project, to ensure congruent and effective visual design objectives and development.





2.0 Site AnalysisPlace | Character | Principles

DESIGN PRINCIPLES

Create future Development Principles drawing from the natural Denmark landscape, that incorporate the requirements of Key Stakeholders and the Public.

Utilise the location of the Rivermouth Caravan Park entry to create a visually appealing point of interest and Information / Rest node, connecting through to the rivermouth foreshore

Develop an accessible, modern and informative natural activity area - incorporating mixed use requirements (Caravan Park, Residents, Pedestrians / Public, Fishing, Boating), enhancing the existing potential for a natural Denmark social hub.

Provide access design elements (Pedestrian and Vehicular) that retain, protect and rehabilitate areas of significant native vegetation.

Create a consistent design language and interface between the Caravan Park and Foreshore.

Create clear zones; identifying public and private areas.

The use of materials, colours and vegetation that are consistent with design principles appropriate for the location and the Shire of Denmark's overall development plans.

DESIGN OBJECTIVES

Ensure due environmental consideration for all development principles.

Enhance the positive tourism and economic contribution that the Rivermouth Foreshore Caravan Park and associated areas provide for Denmark.

Acknowledge and incorporate social aspects of the site (Built, Historical and Indigenous Heritage).

Provide signage and amenities for the public, that are in clearly defined public areas.

Analysis of intersecting trails, and the potential for connections through to Ricketts Reserve and the Heritage Precinct.

The upgrade of existing amenities with a clear design language (shelter, fish cleaning station, toilets, boardwalks, jetties and boat ramp).

Due consideration given for existing usage of the Gazebo area to the west of the Heritage Railway Bridge.

Staged development recommendations for Short to Mid Term (0 - 10 years) and Long Term (10 - 20 years) implementation guidelines.

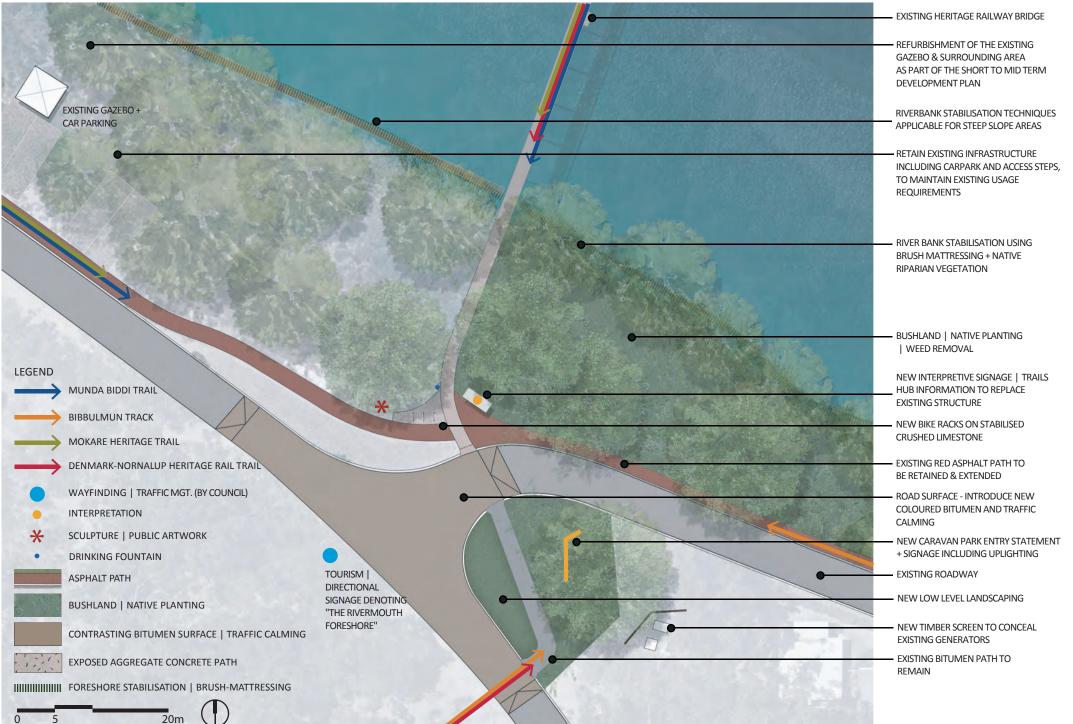




IMAGE: TIMBER SCREENING INCORPORATING SIGNAGE



IMAGE: TIMBER STRUCTURES AND SIGNAGE



IMAGE: TIMBER WAYFINDING | INTERPRETATION SIGNAGE

3.0 Entry Node (Area A)

The Denmark rivermouth foreshore entry is at a meeting point of several trails, including the Mokare Heritage Trail, the Bibbulmun Track, Karri Walk Trail, Denmark - Nornalup Heritage Rail Trail and the Munda Biddi Trail.

An opportunity exists to create a Node | Hub at the meeting point of the Heritage Railway Bridge and the Rivermouth Caravan Park.

This Node can incorporate a new Rivermouth Caravan Park entry statement, and a new timber

structure with signage to facilitate information wayfinding, identifying the start of the rivermouth foreshore interpretation | information trail. Traffic slowing elements on Inlet Drive, where pedestrian access to the caravan park intersects with a number of trails, should however be considered.

An aesthetic site line between the trail information Node | Hub at the entry to the rivermouth foreshore through to the new shop / cafe development can be created. Public sculptural art works could also highlight the start of this site line, and connect visually through to the developed rivermouth recreation area. The next interpretation node to visually connect to will be the Commercial Fishing interpretation area.

Existing footpaths should be upgraded to match existing where required, and extended to include a connection through to the Heritage Railway Bridge, as well as a stabilised crushed limestone area for new custom bike racks.

To create a visually appealing entry node, the following design guidelines should be integrated for the caravan park entry and future development of the existing gazebo / rope swing area adjacent to the Heritage Railway Bridge:

- Layered natural timber structures and signage
- Timber screening to existing generators
- Composite timber materials utlised in the existing gazebo / picnic area (low maintenance / durable)
- Stabilised crushed limestone area for new custom bike racks, and exposed aggregate paths as required
- BBQs to be refurbished as part of the Mid-Term development plan
- New stainless steel drinking fountain adjacent to bike racks (wheel chair accessible) - adhering to natural, organic flow design priciples
- River bank stabilisation using bio-engineering techniques such as brush mattressing (techniques appropriate for steep bank area required west of the Heritage Railway Bridge)
- Native riparian vegetation planting, and weed removal required
- Standardised signage for trail groups + wayfinding to be incorporated as required

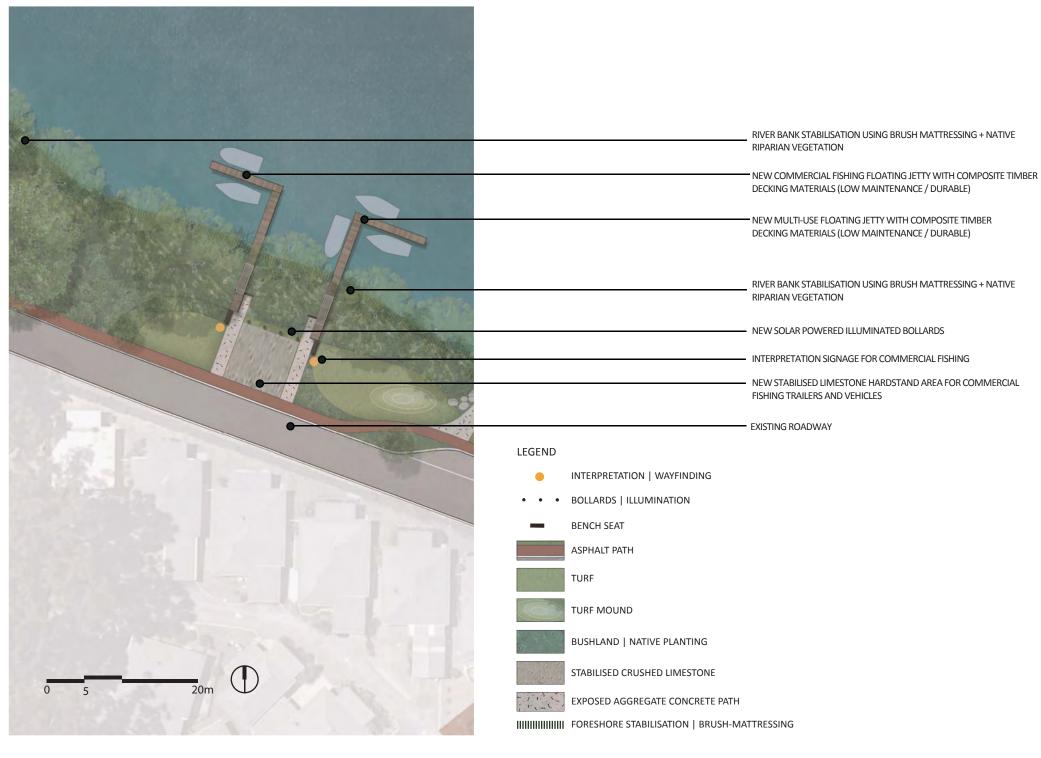




IMAGE: TIMBER SIGNAGE STRUCTURES IMAGE: NEW CUSTOM SCULPTURAL BIKE RACKS



ROBERTS GARDINER ARCHITECTS



4.0 Commercial Fishing (Area B)

Access to the river should be formalised in this area, to assist with and facilitate sustainable and continued small scale local commercial fishing from the rivermouth foreshore.

The use of floating jetties, anchored where there is a natural bank and break through the existing paperbark trees, would increase mooring accessibilty.



Long Term Development Plan

- Jetties (Financial contributions may be sought - construction and/or leasing)
The Multi-use floating jetty could include use by, but not limited to, classic boaters, permanent mooring requestors (by appliaction), etc.

Interpretive signage should be continued along the foreshore; Area B being the second node, describing both the current and historical commercial fishing practices in the area. In addition, imagery of the old finger jetties could be included as a reference to the past river footprint and utilisation, as well as images of local boating groups utilising the river in the past and as they do today.

The influence that the Smith family has had in establishing commercial fishing in the Denmark area should be a focal point for the interpretive signage, highlighting that the family continue to utilise the area for commercial fishing today.

Fish can be purchased by the public directly from the fishing boats; this important social aspect specific to the rivermouth foreshore should be maintained and supported.

Design elements that can be incorporated into the area are:

- Core 10 and timber interpretation signage
- Riverbank stabilisation using brush mattressing
- New floating jetties with composite timber materials (low maintenance / durable)
- Stabilised crushed limestone area for the new hardstand
- Composite timber materials for bench seating (low maintenance / durable)
- Solar powered illuminated bollards



IMAGE: FLOATING JETTY WITH COMPOSITE TIMBER DECKING



IMAGE: FLOATING JETTY



IMAGE: CORE 10 INTERPRETATION SIGNAGE & WAY FINDING



IMAGE: SOLAR ILLUMINATED BOLLARDS



O PARTIE ON DEN

NEW PADDLEBOAT MOORING JETTY BY OTHERS NEW STEPPED ACCESSIBLE BEACH + JETTY ACCESS FOR WATER CRAFT LAUNCHING (LONG TERM PLAN) NEW FLOATING JETTY WITH COMPOSITE TIMBER DECKING FOR TOUR BOAT DOCKING NEW FIXED TIMBER JETTY WITH BENCH SEATING -POTENTIAL FOR EXPANSION IN LONG TERM PLAN NEW BIKE RACKS ON STABILISED LIMESTONE WITH ADJACENT DRINKING FOUNTAIN SHORT TERM MOORING (FORMALISED) RIVERBANK STABILISATION USING BRUSH MATTRESSING + NATIVE RIPARIAN VEGETATION EXISTING ABLUTION BLOCK TO BE REFURBISHED AS SHORT TERM PARKING + TRAFFIC CALMING PART OF THE SHORT - MID TERM DEVELOPMENT PLAN WITH OUTDOOR SHOWER INCLUDED **LEGEND** INTERPRETATION | WAYFINDING **OUTDOOR SHOWER BOLLARDS** BENCH SEAT PICNIC TABLE + BENCHES FUTURE REDEVELOPMENT AREA **EXISTING CHANNEL MARKERS** CARAVAN PARK ADMIN / SHOP / CAFE DRINKING FOUNTAIN **EXPOSED AGGREGATE CONCRETE PATH** ASPHALT PATH TURF TURF MOUND BUSHLAND | NATIVE PLANTING CONTRASTING BITUMEN SURFACE | TRAFFIC CALMING GRANITE ROCKS FORESHORE STABILISATION | **BRUSH-MATTRESSING**







IMAGE: WATER ACCESSIBLE STEPPED JETTIES WITH COMPOSITE TIMBER DECKING



IMAGE: LANDSCAPING, NATIVE SEDGES & FORMALISED RIVER ACCESS

5.0 Recreation & Caravan Park Interface (Area C)

The interface between the new Rivermouth Caravan Park shop / cafe and the foreshore should be developed using a design language consistent with the Rivermouth Foreshore Development Plan. This could include a road treatment to create traffic calming and a pedestrian zone connecting to the foreshore, potentially incorporating flush kerbs for accessibility.



Utilising a consistent design language, will assist in identifying the shop / cafe as a public

"zone" versus the remainder of the caravan park. Elements such as a graduated, landscaped, and layered entry to the shop / cafe from the foreshore would create an open approach. A clearly accessible public building will provide much needed amenities and encourage visitors and locals to spend time at the rivermouth foreshore.

The turf area opposite the caravan park is a popular recreation place for the general public, as well as caravan park users. This area should be developed as the primary recreational zone.

Design elements that can be incorporated are:

Short - Mid Term Development Plan

- Informal nature / water play spaces in the overall foreshore recreation zone
- Increase shade facilities by providing trees (refer to Planting Palette),
 landscaping and structures utilising natural + composite timbers
- Increased seating facilities, including permanent seating, as well as seating that is integrated with the contours of the foreshore utilising composite timber materials (low maintenance / durable)
- Stabilised crushed limestone area for new custom bike racks, and exposed aggregate paths
- Solar powered illuminated bollards
- New outdoor shower to be incorporated with the existing ablution block
- New stainless steel drinking fountain (wheel chair accessible) adhering to natural, organic flow design priciples
- Accessible Floating Jetty with composite timber decking for tour boat operation, allowing side on mooring for commercial boats and greater utilisation (appropriate handrails to be incorporated)
- Short term mooring facilities to minimise informal mooring (preventing the use of star pickets)
- Native vegetation, including sedges, utilised to control pedestrian and vehicular access to the water as well as any potential grass encroachment

Long Term Development Plan

- Stepped access jetties for water craft launching + beach access at varying water levels
- Additional Finger Jetty extension

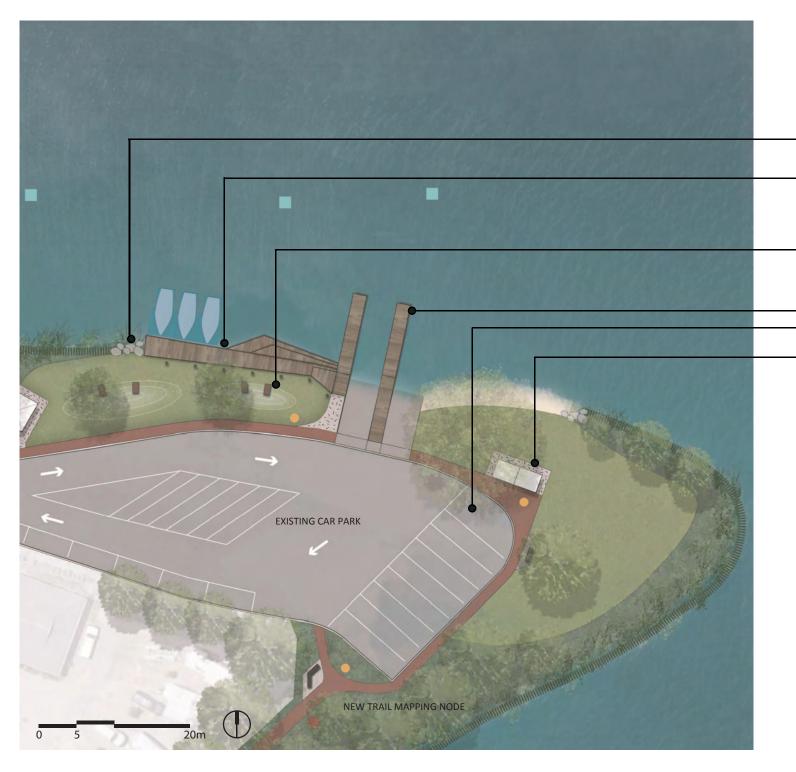




IMAGE: PEPPERMINT TREES FOR SHADING

IMAGE: DRINK FOU

RIVERMOUTH PRECINCT DEVELOPMENT CONCEPT PLAN - DENMARK



RIVER BANK STABILISATION USING BRUSH MATTRESSING. **GRANITE BOULDERS + NATIVE RIPARIAN VEGETATION**

NEW FIXED STEPPED JETTY WITH COMPOSITE TIMBER DECKING AND DURABLE NON-SLIP MATERIALS ON SUBMERGED SURFACES SUITABLE FOR MARINE CONDITIONS (POTENTIALLY REINFORCED FIBREGLASS GRATING): LONG TERM MOORINGS + ILLUMINATED BOLLARDS TO BE INCORPORATED

COMPOSITE TIMBER RECLINING CHAIRS FOLLOWING THE CONTOURS OF NEW TURF MOUNDS

EXISTING JETTY TO BE REPLACED WITH NEW FLOATING JETTIES UTILISING COMPOSITE TIMBER DECKING + REVISED BOAT RAMP LEVELS

DROP-OFF / PICK UP AREA

EXISTING FISH CLEANING STATION TO BE REFURBISHED, AND EXTENDED TO INCLUDE A SEPARETE SHELTER, AS PART OF THE SHORT TO MID TERM DEVELOPMENT PLAN

LEGEND

INTERPRETATION | WAYFINDING

SCULPTURE | PUBLIC ARTWORK

BOLLARDS | ILLUMINATED

BENCH SEAT

RECLINING TIMBER SEAT

EXISTING CHANNEL MARKERS

EXPOSED AGGREGATE CONCRETE PATH

ASPHALT PATH

TURF

TURF MOUND

BUSHLAND | NATIVE PLANTING

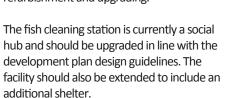
CONTRASTING BITUMEN SURFACE | TRAFFIC CALMING

GRANITE ROCKS

FORESHORE STABILISATION | BRUSH-MATTRESSING

6.0 Boating & Fishing (Area D)

This area has been identified as a multi-use zone, incorporating boating, recreational fishing, river access as well as the socially significant boat ramp and fish cleaning station. The overall location of the facilities should be maintained, however they require significant refurbishment and upgrading.





Areas of erosion along the river and inlet edges should be stabilised using bioengineering techniques including brush mattressing, and planting native riparian vegetation.

Floating Jetties should be installed to replace the existing jetty infrastructure, which will increase river access and utilisation. Due to the water levels and revised infrastructure, the existing concrete boat ramp level will require re-engineering with revised levels.

A river edge boardwalk and formalised boat mooring points will create safe / user friendly access along the river front. Low native riparian vegetation can be utilised to create a pedestrian barrier to water access.

The sandy beach access point to the river should be increased, to provide additional space for swimming and kayak, sailing and dragon boat launching.

The existing carpark line work should be upgraded. Existing boat trailer parking is to be maintained, and there is the potential for overflow carparking in the Heritage Precinct. The new walk trail signage created will help facilitate pedestrian direction from the Heritage Precinct to the Rivermouth Foreshore area.

A continuous path can be developed along the foreshore towards the inlet point, linking the existing foreshore and inlet trails. The opportunity for a trail mapping node can be created where the trails meet.



IMAGE: RECLINING SEATS CONTOURED TO TURF IMAGE: FLOATING JETTY CONCEPT









IMAGE: UPDATED FISH CLEANING STATION



7.0 Boardwalk (Area E)

From the trail mapping node created in Area D, there is the potential to create a boardwalk from the existing carpark, through to Ricketts Reserve.

Bird Hides and bird watching nodes can be incorporated into the boardwalk. There is also the opportunity to create a sculpture walk with installations by local artists.



Formalised bench seating, low level landscaping, illuminated bollards and low level boardwalk lighting would create a destination walk trail for the public and locals to enjoy.

Short to Mid Term Development Plan

- New timber boardwalk extension from the existing asphalt path
- Low level planting buffer between caravan sites and footpath
- Bird hide and bird watching | rest nodes
- Bushland | native planting | weed removal
- Composite timber materials for bench seating (low maintenance / durable)
- Solar powered illuminated bollards | low level boardwalk lighting
- Interpretive signage at rest nodes | points of interest

Mid to Long Term Development Plan

- Timber boardwalk extension from the existing carpark through to Ricketts Reserve
- Sculptural walk trail with installations by local artists
- Additional bird hide and bird watching | rest nodes
- Bushland | native planting | weed removal
- Additional composite timber bench seating (low maintenance / durable)
- Additional solar powered illuminated bollards | low level boardwalk lighting



IMAGE: TIMBER INTERPRETIVE SIGNAGE



IMAGE: BIRD HIDE



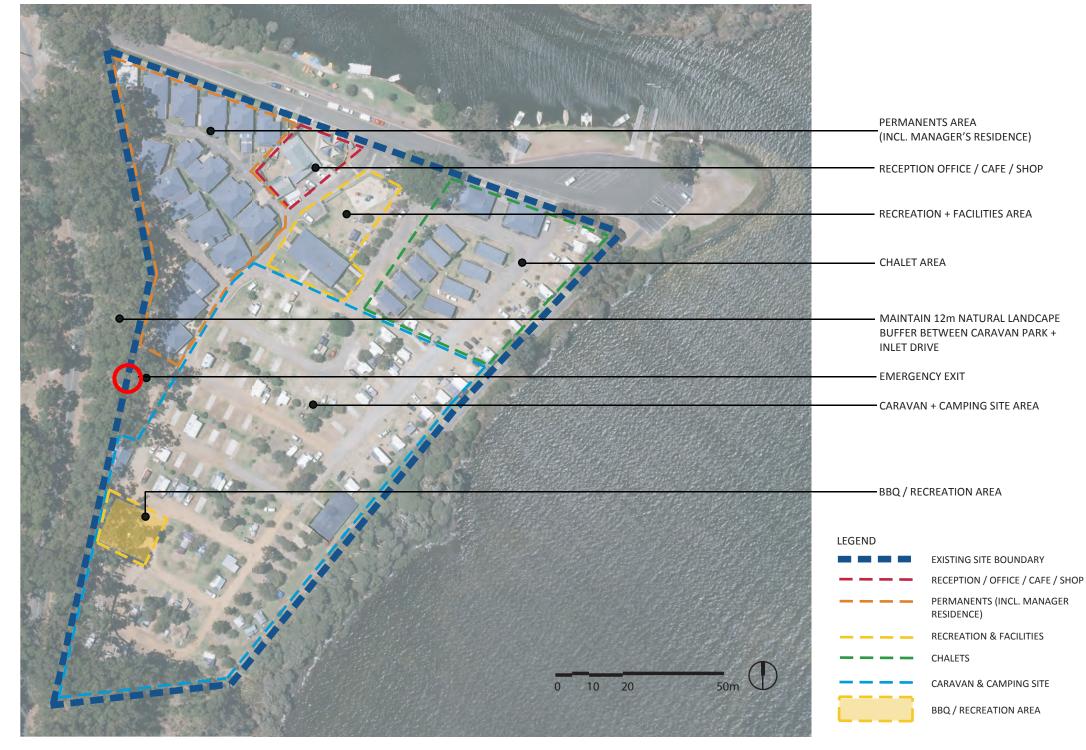


IMAGE: BOARDWALK SEATING + LOW LEVEL LIGHTING



IMAGE: SCULPTURAL TRAIL

IMAGE: BOARDWALK



8.0 Rivermouth Caravan Park Precinct (Area F)

The future development of the Rivermouth Caravan Park will play a vital role in retaining and enhancing the recreational and social importance of the Rivermouth Foreshore area, for the Denmark community, and visitors to the Great Southern region.

The Rivermouth Caravan Park contributes significantly to the tourism industry in Denmark, and forms an integral part of the Rivermouth Foreshore recreational hub.



Improving the amenities and services provided at the Rivermouth Foreshore (cafe / shop / amenities / improved river activity access), specifically through the Caravan Park, will assist in creating an accessible and user friendly area, as well as a tourism draw card for the region, where both the community and visitors will want to stay and enjoy the foreshore's natural beauty and resources.

This report and associated plan are intended as a resource to upgrade and supersede the existing 2004 Development Plan, encapsulating work that has occurred onsite to date, and providing guidelines for future development areas identified across the site (Reserve 46241). The guidelines are intended to consider the potential needs and requirements of the community, the Rivermouth Caravan Park lessees and the Shire of Denmark (in the capacity of the Management body for the Reserve).

The plan has been separated into a number of Development Areas to allow flexibility and development options for the Caravan Park lessees. Design principles adopted in the Foreshore Development Plan should guide future Caravan Park development designs, ensuring consistency throughout the site (Rivermouth Caravan Park & Foreshore).

Design principles that can be incorporated are:

- Shade facilities by providing trees (refer to Planting Palette), landscaping and structures utilising natural + composite timbers
- Seating and other facilities utilising composite timber materials (low maintenance / durable)
- New built structures to follow the design language established for the Rivermouth Foreshore Development Plan, and incorporate layered natural + composite timbers and materials
- Stabilised crushed limestone areas for feature areas, and exposed aggregate paths
- Solar powered illuminated bollards
- Where stainless steel amenities are required, they should adhere to natural, organic flow design priciples
- Native vegetation utilised to control pedestrian and vehicular access & egress





IMAGE: CHALET AND LANDSCAPING DESIGN TO MATCH EXISTING IMAGE: NATURAL CAMPING GROUND FACILITIES MAINTAINING TREES AND TURF AREAS



IMAGE: BBQ AREA FIXTURES USING NATURAL MATERIALS



9.0 Site Sections (Conceptual)



Section Location Plan



