



SANDRINGHAM FORESHORE MASTERPLAN



Thompson Berrill Landscape Design P/L

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INTRODUCTION

The Draft Sandringham Foreshore Master Plan directly guides design, priorities and staging of on ground works on Council managed land within the precinct, implementing the recommendations of current strategic plans including the Bayside Open Space Strategy 2012, Bayside Coastal Management Plan 2014 and Sandringham Foreshore Coastal Management Plan 2010.

The Bayside Open Space Strategy classifies the Sandringham Foreshore Precinct as municipal open space highlighting its importance for both local Bayside residents and regional visitors from outside the municipality. Consistent with the recommendations of the strategy the provision of facilities at Sandringham Foreshore will aim to cater for visits that often exceed two hours in duration by providing adequate shade, car parking, public toilets, picnic facilities and drinking fountains serviced by a network of accessible sealed and unsealed walking and cycling paths.

The Bayside Coastal Management Plan (BCMP) was adopted by Council 2014, its development included extensive consultation with the Bayside community and has informed development of the draft master plan. The BCMP and existing Sandringham Foreshore Coastal Management Plan, developed in 2010 in partnership with Parks Victoria and Department of Environment, Land , Water and Planning (DELWP) provides the strategic direction for actions and works proposed within the master plan. The key objectives for the master plan include:

- Ensure protection of the foreshore environment, particularly areas of remnant coastal vegetation and habitats for native wildlife.
- Identify and protect areas of cultural heritage significance.

- Improve pedestrian access and safety on Jetty Road and within existing parking areas.
- Improve vehicle access, circulation and parking efficiency throughout the precinct.
- Identify and improve access and safety on the designated Coast Walking Path, maintain existing character while sustainably managing for increasing future use.
- Identify opportunities to rationalise duplicated secondary tracks and paths to reduce impacts on environmental and cultural heritage values.
- Review and prioritise replacement and upgrade of existing facilities in accordance with Council Policy.
- Improve all ability access to the beach, paths, toilets, parking, picnic areas and club based facilities.
- Support improved public access and multi use of club based facilities.
- Recognise and reinforce the status of Sandringham harbour as a regional boating facility.

The Sandringham Boat Harbour, including the lease areas of the Sandringham Yacht Club, Hampton Sailing Club, Hampton Pier and Scouts/ Guides, Angling and Triathlon Clubs are managed by Parks Victoria. These areas will continue to be managed in accordance with the provisions of the Sandringham Foreshore Coastal Management Plan 2010 however opportunities to improve integration with Council managed areas have been considered in consultation with Parks Victoria where appropriate.



LAND MANAGEMENT

The Sandringham Foreshore is Crown Land with Parks Victoria and Bayside City Council sharing committee of management responsibility in accordance with the requirements of the Crown Land Reserves Act 1978, Coastal Management Act 1995 and Bayside Coastal Management Plan 2014. The Master Plan is being prepared to directly guide future works priorities and staging on Council managed land. However, opportunities for integration with land managed by Parks Victoria including the Sandringham Boat Harbour, Hampton Pier and Scouts/Guides, Angling and Triathlon Clubs have been considered where appropriate.

MAJOR EVENTS

The Sandringham Foreshore is the largest area of public open space on the foreshore within Bayside. It is located only a 10-12 minute walk from two train stations and is serviced directly by the Bay Trail. It can provide between 600 and 800 car parking spaces making it an ideal site for major events within the municipality. The boat harbour is utilised for numerous sailing events; the popular Farmers Market is held every month at Trey Bit Reserve and used by Beaumaris Cricket Club and Cheltenham Cricket Club for Junior cricket on a weekly basis; and Trevor Barker Beach Oval is home to Sandringham Football Club in the VFL.

TREY BIT RESERVE

SANDRINGHAM FARMERS MARKET

Trey Bit Reserve is a centrally located open grass area providing for informal recreation, space for the Bayside Farmers Market and important flexibility for major event planning including overflow car and boat trailer parking and storage. Summary of key recommendations include:

- Retain as mown grass with no permanent facilities providing flexibility in use as both informal open space for local community use and for hosting of major events.
- Support continued use of the reserve for the popular Farmers Market.
- Review pedestrian and vehicle access and sightlines from Jetty Road to improve safety in use of the reserve for major events.
- Protect surrounding coastal vegetation providing a clear designated route for the coastal walking path.

EXISTING BUILDINGS AND LEASE AREAS

The Victorian Coastal Strategy 2014 building policy promotes coastal dependant uses, sustainability, equity and community need in relation to the development and management of buildings on the coast. There are a range of different club and other community based organisations which lease facilities at Sandringham Foreshore. These groups account for a significant proportion of visitation to the area however many of their facilities were built and developed for single interest clubs, are nearing the end of their life span and do not meet current building codes, limiting their ability to attract new members and useability by other groups and the public.

Management and any future redevelopment of existing buildings and lease areas on the foreshore is guided by the requirements of The Victorian Coastal Strategy (2014), Council Policy and the recommendations of the Bayside Coastal Management Plan (2014). These include:

- Investigate opportunities for multi use of existing buildings and lease areas.
- Encourage consideration of joint partnerships and increased public access in any redevelopment proposals for aging infrastructure.
- Ensure no net increase in building footprint and seek rationalisation of existing buildings where possible in any redevelopment works.

CROQUET CLUB:

The club has a 103 year history and active but aging membership. A new all ability path link from Abbott Street and additional disabled parking bays in the B10 Abbott Street carpark could improve access to the club.

AUSTRALIAN VOLUNTEER COAST GUARD

VF12 Sandringham Coast Guard is a radio coordination centre for coast guard vessels and search and rescue. It is staffed all year round by volunteers and provides education and training services in marine safety.



SANDRINGHAM FARMERS MARKET



SANDRINGHAM ANGLERS CLUB



SANDRINGHAM YACHT CLUB

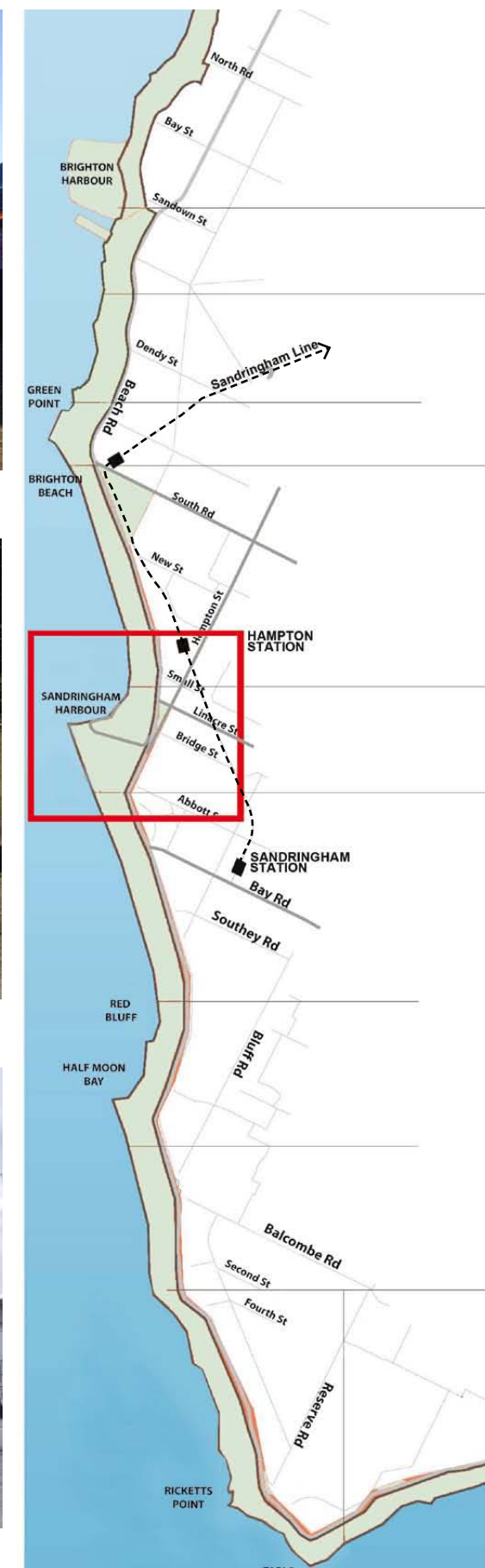


Figure.1 Context Plan
Bayside Coastal Management Plan 2014

EXISTING LEASE AREAS

TREVOR BARKER BEACH OVAL

Home of the Sandringham Football Club the historic oval wall and fencing are heritage listed in the Bayside Planning Scheme. Recent oval redevelopment has reduced available space inside the fence and the master plan recommendations seek to improve vehicle circulation, access to parking and pedestrian safety while supporting alternative transport options. Summary of recommendations include:

- Provide signed disabled parking spaces, dedicated vehicle turn around area and improved lighting in the B6 car park adjacent to Sandy By the Bay Function Centre.
- Upgrade drainage at the Jetty Road/Beach Road ticket box/entry car park.
- Provide additional bike parking within the oval.
- Investigate restoring unsealed through road connection between the Football Club and Coast Guard car parking areas to improve vehicle circulation and multi use access to car parking. Retain minimum two designated parking spaces for the Coast Guard.

SANDY BEACH KIOSK HQ, KAYAK SHOP AND BOATSHED NO.35

The former boat sheds are an important part of the character and history of the Sandringham Boat Harbour. The timber buildings and rear retaining walls are however in poor condition and will require substantial refurbishment/replacement in the short-medium term. Support continued commercial leasing in this area servicing both beach users, walkers and other visitors. When building replacement / refurbishment occurs ensure retention of architectural character while investigating opportunities for consolidation of building footprint, provision of public toilets and all ability access as required under current building regulations.

SANDRINGHAM ANGLING CLUB, TRIATHALON CLUB AND GUIDES AND SCOUTS

Sandringham Angling Club has an 80 year history and has occupied the leased area since the 1940's. The club has grown in recent years and has a large kayak contingent. The club built the present building in 1971, part of which has been occupied by the Bayside Triathlon Club since 2002.

Leases are managed by Parks Victoria with restricted member only vehicle access from the B7 Kiosk Car Park via the existing unsealed walking track. Increased vehicle access on this track is not supported due to impacts on coastal vegetation and potential increased risk to pedestrians/dog walkers. Parks Victoria have indicated that they have no plans for dredging or additional boat ramps to service this area.

- Install bollards to minimise impacts of informal parking on sensitive coastal vegetation.
- Liaise with Parks Victoria and leaseholders regarding limitations to vehicle access, speed limits and need to watch out for wildlife. Ensure the existing gate is closed to restrict vehicle access to only the essential operational needs.

SANDRINGHAM YACHT CLUB AND HAMPTON SAILING CLUB

Leases managed by Parks Victoria. Boat harbour management including dredging and mooring access are ongoing issues outside the scope of the master plan with actions and priorities to be guided by the existing management plans and ongoing coastal processes assessment by Parks Victoria.



SANDY BEACH KIOSK HQ AND KAYAK SHOP

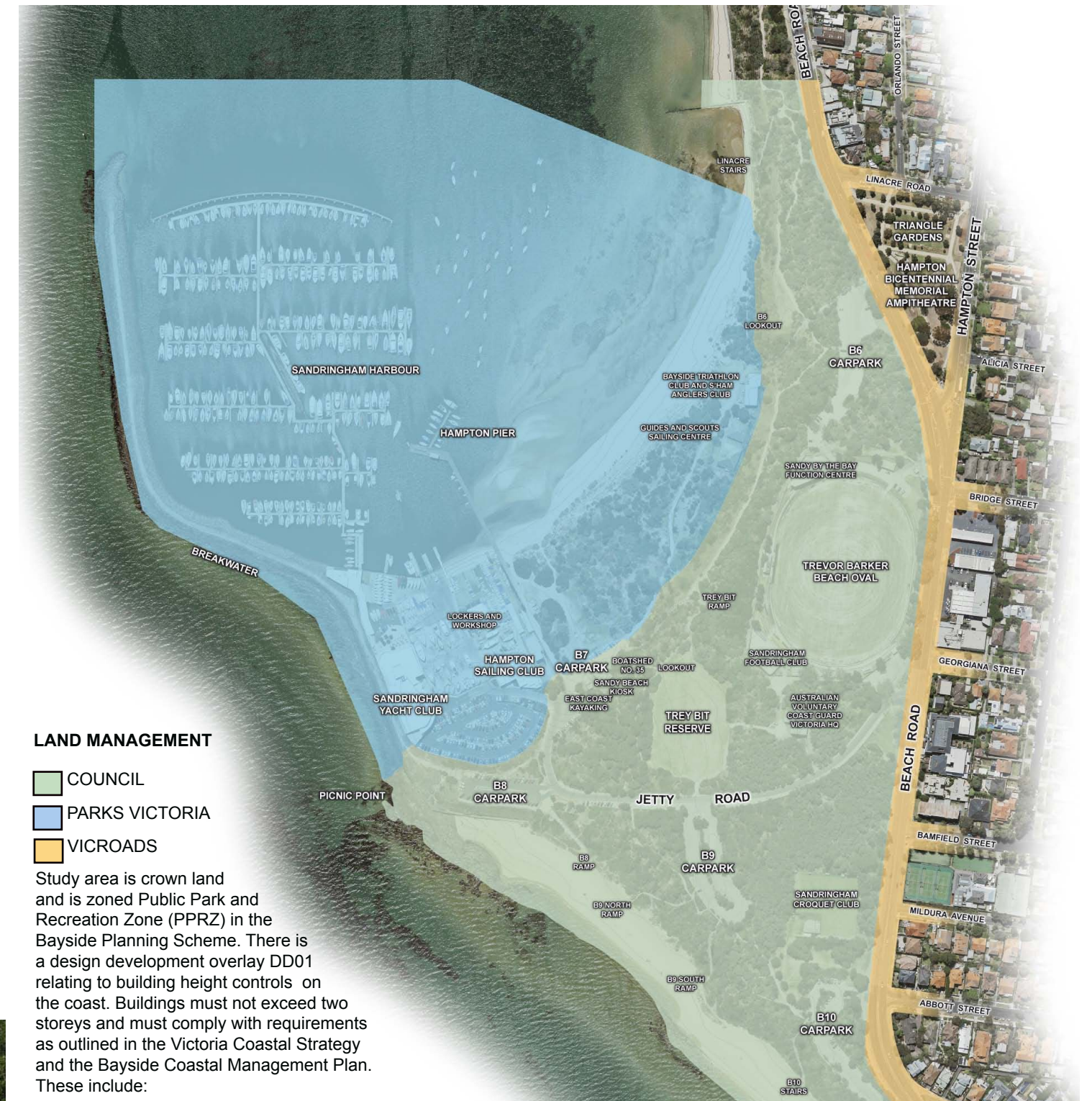


Figure.2 Land Management

VEHICLE ACCESS AND PARKING

EXISTING CONDITIONS

There are approximately 750-800 car parking spaces at Sandringham Foreshore. These include 200-250 restricted member only spaces and 500-600 public spaces including Trey Bit Reserve which provides flexibility for both car and boat trailer parking during major events. Car parking at the kiosk and in areas with views to the foreshore is used daily with peak demand on the weekends, however even on the busiest of beach, football and market days there is always typically parking spaces available at Sandringham Foreshore. Parking demand during events such as the football and market focuses use on specific car parks with a lack of vehicle turn around areas on Jetty Road and within unsealed car parking areas results in peak period congestion and reduced safety for pedestrians even when there is plenty of parking available in other areas nearby.

The majority of public parking spaces are unsealed and parking space availability can vary depending on parking efficiency with illegally parked cars also contributing to congestion in peak periods. Despite sandy conditions, a lack of drainage presents ongoing problems in several car parks and there is a lack of designated disabled parking and directional signage.

There is no existing provision for bus parking at Sandringham Foreshore. Buses and coaches typically occupy the unsealed parking areas in off peak periods however there is no designated turnaround space. There is insufficient room to provide for formal bus and coach parking and turnaround in this area without substantial expansion or loss of car parking at the end of Jetty Road.

KEY RECOMMENDATIONS:

- 1 Reduce traffic speed in Jetty Road and provide a separate pedestrian path to improve safety while retaining access for boat trailers and peak period traffic volumes.
- 2 Provide a pedestrian priority crossing on Jetty Road for the Coast Walking Path.
- 3 Improve vehicle circulation providing additional dedicated turn around areas in B6, B7, B9 and B10 carparks to reduce congestion. Seal the circulation road in B9 carpark.
- 4 Improve overflow parking and pedestrian access to Trey Bit Reserve from Jetty Road for major events.
- 5 Reduce peak period congestion by more clearly defining car parking bays and access aisles in existing unsealed carparks.
- 6 Provide additional signed disabled parking spaces and directional signage to more accessible beach access ramps and facilities.
- 7 Improve pedestrian safety and amenity around existing parking meters and access points to beach access ramps.
- 8 Improve drainage and stormwater management incorporating WSUD principles where possible to maintain water quality in the boat harbour and bay.
- 9 Retain existing trees and coastal vegetation while ensuring sustainable management of required clearances and sightlines for safety.
- 10 Improve traffic circulation and safety at the football club parking and drop off areas.
- 11 Review and improve pedestrian / cyclist safety at carpark entries / path road crossings.
- 12 Review volume of bus traffic to the site. Investigate formalisation of designated area for drop off and turnaround but not permanent parking.
- 13 Maintain clear sightlines at the Bay Trail crossing. Liaise with VicRoads to establish additional advance warning signage.

Refer to Detail Plans A-B-C-D for implementation



Figure.3 Vehicle Access and Parking

PEDESTRIAN AND CYCLE ACCESS

BEACH ROAD - BAY TRAIL

The 2.5m wide concrete Bay Trail provides continuous off road access for cyclists and pedestrians along Beach Road. Summary of key objectives include:

- 1 Liaise with VicRoads to improve informal pedestrian crossings on Beach Road at Abbott Street and Linacre Road.

COAST WALKING PATH

The narrow unsealed coast walking path runs parallel with Beach Road winding its way through coastal bushland with elevated views out over the Bay and beaches to the city. It varies in width and is increasingly popular with walkers and joggers of all ages and abilities. Cyclists are discouraged from using the trail to avoid congestion and to minimise impacts on sensitive coastal vegetation and habitat values. Summary of key recommendations includes:

- 2 Maintain a compacted granitic gravel/sand walking path up to 2.5 metres in width (site specific), inclusive of pruning to either side.
- 3 Replace sections of log stairs with an all ability graded durable composite fibre mesh backfilled with local granitic gravel/sand.
- 4 Increase trail width and clearance at the B9 and B10 car parks in accordance with the Bayside Coastal Management Plan (2014).
- 5 Retain fencing to one side only and replace where possible with more natural log edging to define the trail alignment.
- 6 Close and revegetate duplicated secondary trails to enhance coastal bushland and habitat values.
- 7 Establish continuous timber post and cable fencing to sections of steep cliff to improve safety.
- 8 Install low key directional signage at key entry points and intersections.
- 9 Maintain timber chicanes at entries from Beach Road to discourage cyclists from using narrow walking paths while retaining access for prams and wheelchairs/walking aids.

BEACH ACCESS

The steep topography, cliff instability and areas of sensitive cultural heritage and environmental value restrict opportunities to improve grades on existing beach access ramps and stairs. Summary of key recommendations includes:

- 10 Undertake staged upgrade of stainless steel handrails providing them to both sides of all ramps in accordance with AS1428. Where possible add flat resting points along steep ramps and install signage to alert new users to grade and condition before they start their decent.
- 11 Coordinate and prioritise ramp upgrades with provision of new disabled parking areas and improve directional signage to ramps with better access for persons with limited mobility.
- 12 Improve sightlines at entry points from existing car park areas and prioritise upgrade of lighting where evening use is more frequent.
- 13 Install additional bike parking facilities at beach, kiosk and Trevor Barker Oval.
- 14 Reset rockwork to improve high tide access for pedestrians at bottom of the Linacre Road stairs and connection from the existing sea wall path.

Refer Detail Plans A-B-C-D for implementation.



Figure.4 Pedestrian and Cycle Access

UNIVERSAL ACCESS IMPROVEMENT PRIORITIES

Between 13-20% of Bayside residents have a disability of some kind and equity of access to the foreshore, open space areas and facilities is a key Council requirement and objective. The steep topography, unstable cliffs and ad hoc development of infrastructure result in numerous barriers to universal access at Sandringham Foreshore. Some barriers such as topography and the legislative requirements for protection of coastal environmental values and sites of cultural heritage significance are not easily overcome. The following summarises the proposed priorities and staged approach for improving universal access at Sandringham Foreshore:

The approach and priorities have been subject to an accessibility audit.

- 1 B7 CAR PARK (HIGH)**
 - Provide disabled parking space near the Kiosk.
 - Improve all-ability access to existing Kiosk.
 - Provide new all-ability toilets.
- 2 EXISTING TOILETS (HIGH)**
 - Replace existing facility and include fully accessible toilets.
 - Provide sealed all-ability path link to the toilets from disabled parking B8 car park.
- 3 B8 CAR PARK (HIGH)**
 - Provide additional disabled space closer to toilet and ramp.
- 4 B10 CARPARK (HIGH)**
 - New disabled spaces (2) with all ability path link to the Croquet Club.
 - New kerb ramp and signage at Abbott Street crossing on Beach Road.
- 5 B8 RAMP (HIGH)**
 - New handrail to both sides to AS1428.
 - Provide flat rest points off the ramp on coast side.
- 6 B9 RAMPS (HIGH)**
 - Install signage to more gently graded B9 ramp.
 - No opportunities to upgrade other than to replace handrails to AS1428.
- 7 COASTAL WALKING TRAIL (HIGH)**
 - Unsealed all weather all ability walking track 2.0m wide with 0.5 clearance to either side. Retain fencing to one side only except in areas with cliffs or significant vegetation / cultural heritage values.
 - Remove step sections and replace with ramp / boardwalks.
- 8 B6 LOOKOUT (HIGH)**
 - New safety fence but retain views.
 - Provide all ability access drinking fountain and new tables.
- 9 HAMPTON JETTY (MEDIUM)**
 - Improve all-ability access to the pier and beach from parking area.
- 10 B6 CAR PARK (MEDIUM)**
 - Disabled parking space at ramp exit.
 - Provide disabled parking spaces (2) and path at Sandy by the Bay Function Centre.
- 11 TREY BIT RAMP (MEDIUM)**
 - New handrail to both sides.
 - New 'rest points' on the side of the ramp.
 - Remove chicane in the coast walking path.
- 12 TREY BIT LOOKOUT (MEDIUM)**
 - Remove steps and provide all ability ramp/boardwalk and new picnic table
- 13 BREAKWATER (MEDIUM)**
 - Improve surface on breakwater.
 - Ensure all-ability access from B8 car park.
 - Provide access all-ability fishing spots.
- 14 LINACRE ROAD STAIRS (LOW)**
 - Provide kerb ramp improve access at the crossing point from Beach Road.
 - Install signage to more gently graded Trey Bit Ramp.
- 15 B9 CARPARK (LOW)**
 - Temporary disabled spaces already provided for the Farmers Market.
 - Improve Coastal Walking Track access
 - Install signage to B8 more gently graded ramp and toilets (when upgraded).



Figure.5 Universal Access Improvements

EXISTING FACILITIES

PUBLIC TOILETS

The Jetty Road Toilets are the only public facility on site, they do not provide for disabled access and are in poor condition. Replacement of this facility has been identified as the highest priority in the Bayside Toilet Strategy. There are no public toilets in the Sandy Beach Kiosk and B7 Kiosk Car park area. This area is subject to extensive use by visitors to the kiosk, dog walkers and school groups undertaking activities associated with the kayak school and other clubs in the area. Summary of key recommendations include:

- 1 Replace the Jetty Road toilet block, providing improved disabled access and a sealed all ability path link from the B8 Picnic Point car park.
- 2 Provide new all-ability public toilet facility and beach showers.
- 3 Establish a new outdoor beach shower at the bottom of the B8 Picnic Point beach access ramp.

LIGHTING

The existing lighting and dense coastal vegetation makes evening use of some access ramps, car park areas and sections of the coastal trail network limited. Increased lighting may impact on sensitive habitat values and increase inappropriate after hours use of uneven tracks and ramps and therefore must be carefully considered. Priority will be given to improving lighting associated with existing evening uses. Summary of key recommendations include:

- 4 Provide additional lighting in the B6 car park near the Sandy by the Bay Function Centre.
- 5 Provide additional low level lighting around the B6 beach ramp link down to the Scouts/Guides, Angling and Triathlon Club buildings.

DRINKING FOUNTAINS

There are high levels of active recreation, training and major summer events undertaken within the precinct. Drinking fountains also provide water critical to local indigenous fauna found in the area, especially in periods of extreme dry/hot weather. Summary of key recommendations include:

- 6 Undertake staged upgrade of existing drinking fountains including dog bowls and shallow overflow bases providing water for native wildlife.
- 7 Establish a new sustainable water bottle refill station near the B8 car park/Jetty Road toilet block.

SIGNAGE

There is extensive signage throughout the foreshore area but some signage has become redundant and there is a lack of directional signage for new visitors to the area. Undertake staged upgrade/replacement with new directional and regulatory signage at key entry points to the site including car parks, Beach Road crossing points and beach access ramps in accordance with current Council standards. Where possible consolidate and remove redundant signage from site.

SEATING AND LOOKOUT POINTS

Elevated seating and viewing points over the Bay, boat harbour and back to the city are popular with all visitors. Recent upgrades of new seats and viewing areas have improved all ability access yet many areas remain inaccessible to visitors with limited mobility.

- 8 Continue staged upgrade of popular viewing areas to improve all ability access and safety.
- 9 Install fencing on the coast side to restrict access to informal viewing points minimising impacts on sensitive coastal vegetation and reducing public risk along the steep and unstable escarpments and cliffs.

Refer Detail Plans A-B-C-D for implementation.



Figure.6 Existing Facilities

ENVIRONMENTAL VALUES

Sandringham Foreshore is one of the largest areas of remnant coastal vegetation in Bayside. It contains areas Coastal Dune Grassland (EVC 879), Coastal Dune Scrub (EVC 160) and Coastal Headland Scrub (EVC 161) and provides important habitat and refuge for a range of indigenous native birds, bats, mammals, reptiles and insects in the otherwise built urban environment.

Native vegetation at Sandringham Foreshore is covered by a Vegetation Protection Overlay (VPO1) in the Bayside Planning Scheme. The aim of the overlay is to protect and preserve trees and areas of significant vegetation, implementing key requirements of the State Planning Policy Framework and ensuring any new development minimises loss of native vegetation. The overlay and ongoing Council management of the foreshore aim to maintain and enhance habitat and habitat corridors and to encourage the regeneration of native vegetation. A permit is required to remove vegetation other than as part of weed control, fire prevention, public safety and road safety management actions.

There has been extensive historical and ongoing community involvement in protection and enhancement of native vegetation and habitat at Sandringham Foreshore. Black Rock and Sandringham Conservation Association (BRASCA), Friends of Native Wildlife, Friend of Picnic Point and the local community all actively assist Council in rubbish removal, weed control and monitoring of flora and fauna.

Summary of key recommendations include:

- 1 Protect and focus priority specialist weed control and management resources into areas with good quality remnant indigenous vegetation implementing recommendations as identified in the Bayside Native Vegetation Native Works Program.
- 2 Close and revegetate duplicated secondary paths and informal access tracks to offset the impacts of ongoing requirement for vegetation pruning and removal to maintain sightlines for safety along the main Coastal Trail, beach access ramps and at car park entry exits.
- 3 Ensure new cliff and escarpment fencing includes anchor points to improve safety in future weed control and revegetation efforts in these difficult to access areas.
- 4 Continue staged revegetation in consultation with local community groups. Ensure use of indigenous species grown from locally sourced seed consistent with the prevailing Ecological Vegetation Class (EVC). Carefully plan revegetation, modifying the species mix within the EVC if required to maintain and enhance biodiversity values while ensuring establishment of long term sustainable and manageable planting in areas with existing views or where required for ongoing public access or other use.
- 5 Undertake ongoing monitoring of fox, rabbit and feral cat numbers initiating targeted control programs where required.
- 6 Install new signage regarding illegal removal of shellfish from the intertidal zone.

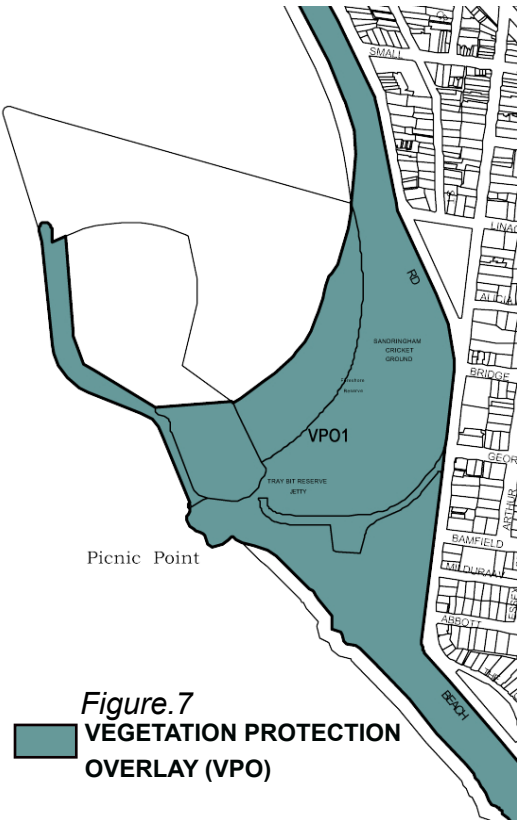


Figure.8 Existing Vegetation

CULTURAL HERITAGE

Indigenous occupation of what is now known as the Sandringham foreshore dates back many thousands of years and the area contains registered cultural heritage sites ie: middens that relate to this occupation. These sites and all other cultural heritage places are protected under the provisions of the Victorian Aboriginal Heritage Act 2006. The Act recognises Aboriginal people as the primary guardians of their cultural heritage and has established a process for Indigenous groups to apply to be registered as Registered Aboriginal Parties (RAPs). There is currently no appointed RAP for the Sandringham Foreshore area, however multiple groups have applied for this registration.

Other historical features of the foreshore include the 1920s concrete wall around the Sandringham Football Club and various bluestone sea walls and the harbour breakwater. The Sandringham foreshore has other cultural values such as a long history of beach and holiday use and these features and uses need to be considered in any works.

Indigenous and European cultural heritage must be protected during master plan implementation, and on sites where major ground breaking work are involved a due diligence Cultural Heritage Assessment will be required.

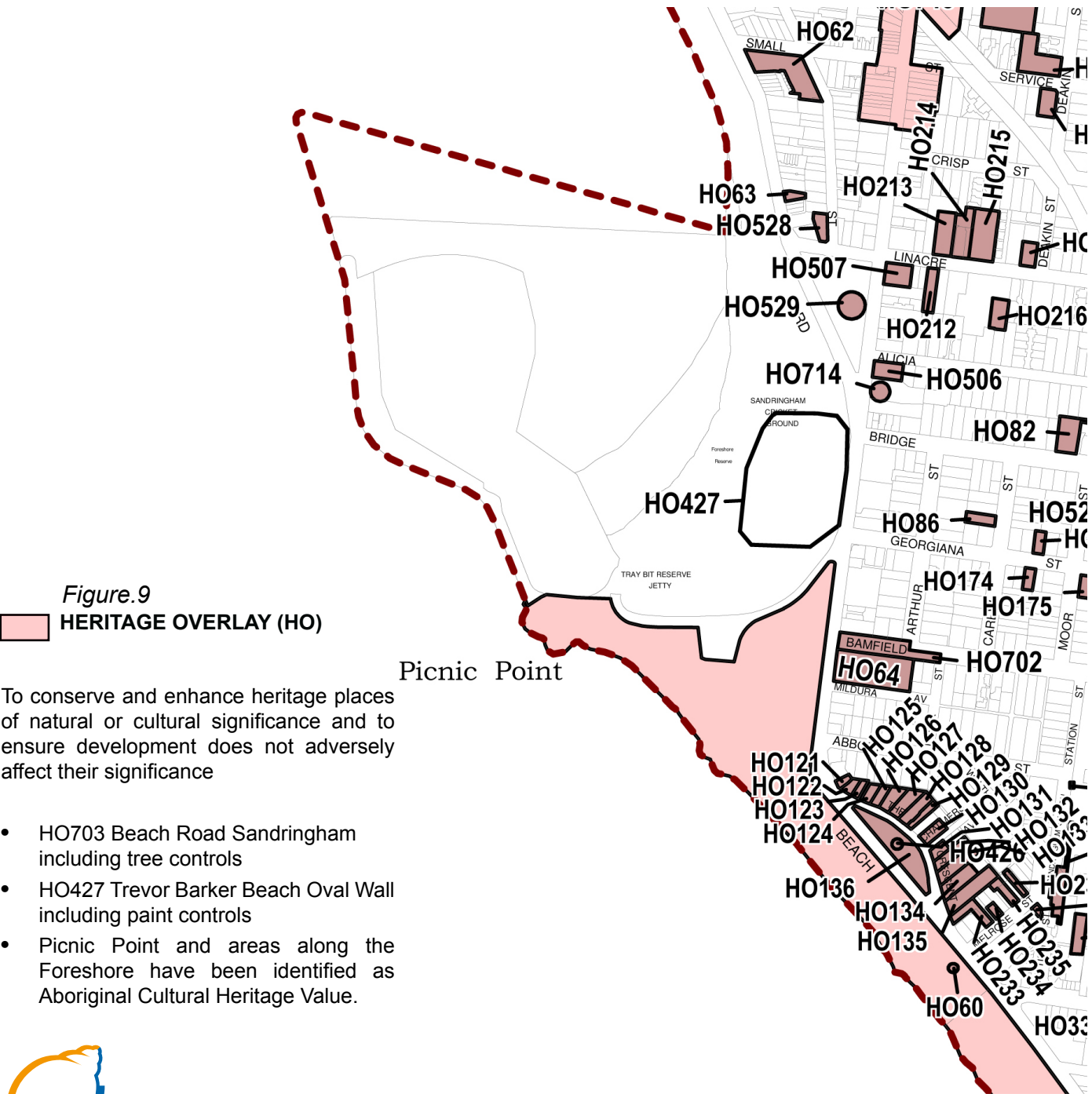


Figure.10
Areas of known Aboriginal cultural heritage sensitivity (D.Rhodes 2016)

Areas of known Aboriginal cultural heritage sensitivity

Figure 10 indicates the area of known Aboriginal cultural heritage sensitivity at Picnic Point. Undertake a surface survey and review previously registered sites within the area identified in Figure 10 - and amalgamate all identified sites of cultural heritage significance and register with the Office of Aboriginal Affairs Victoria.

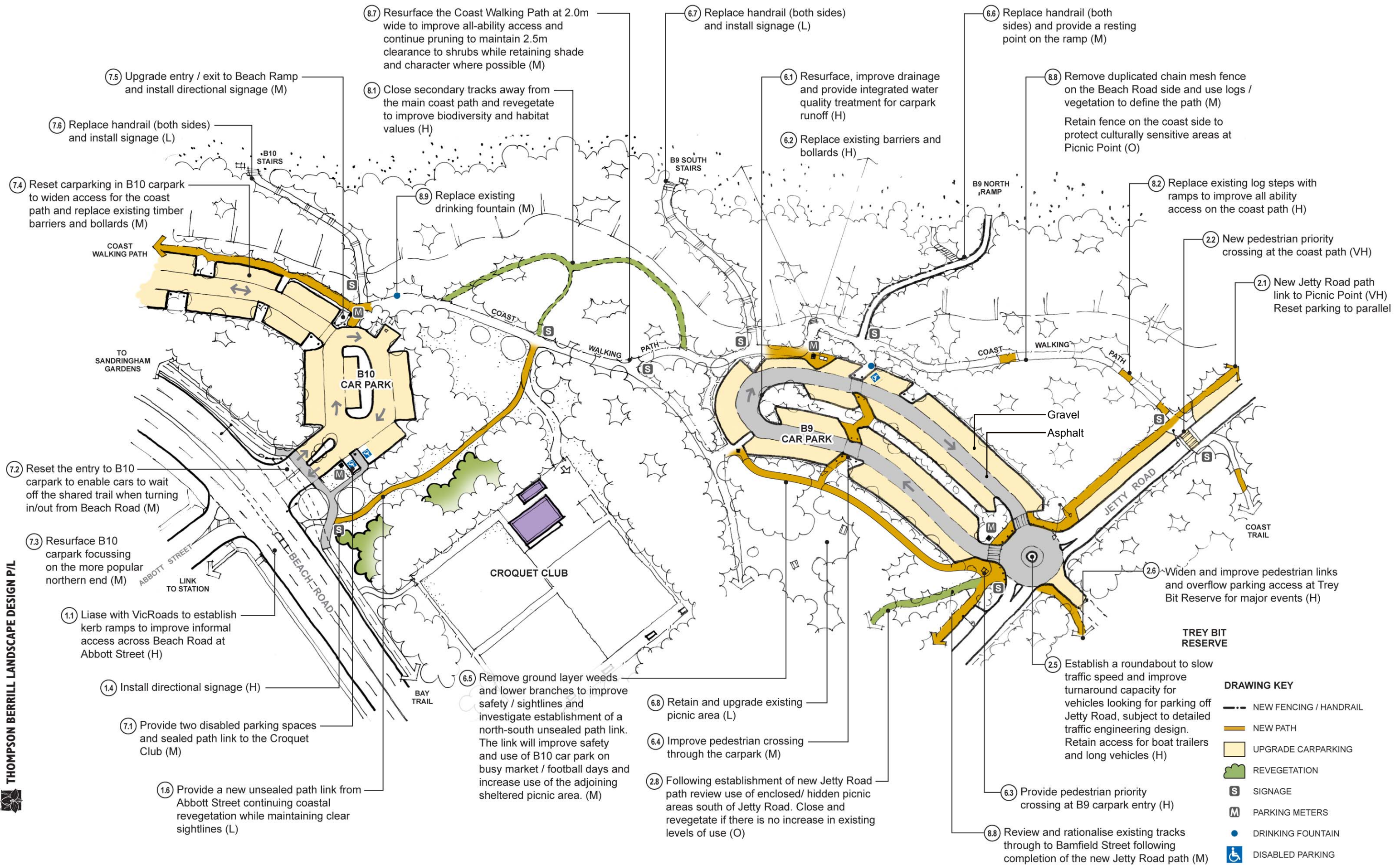


Figure.11

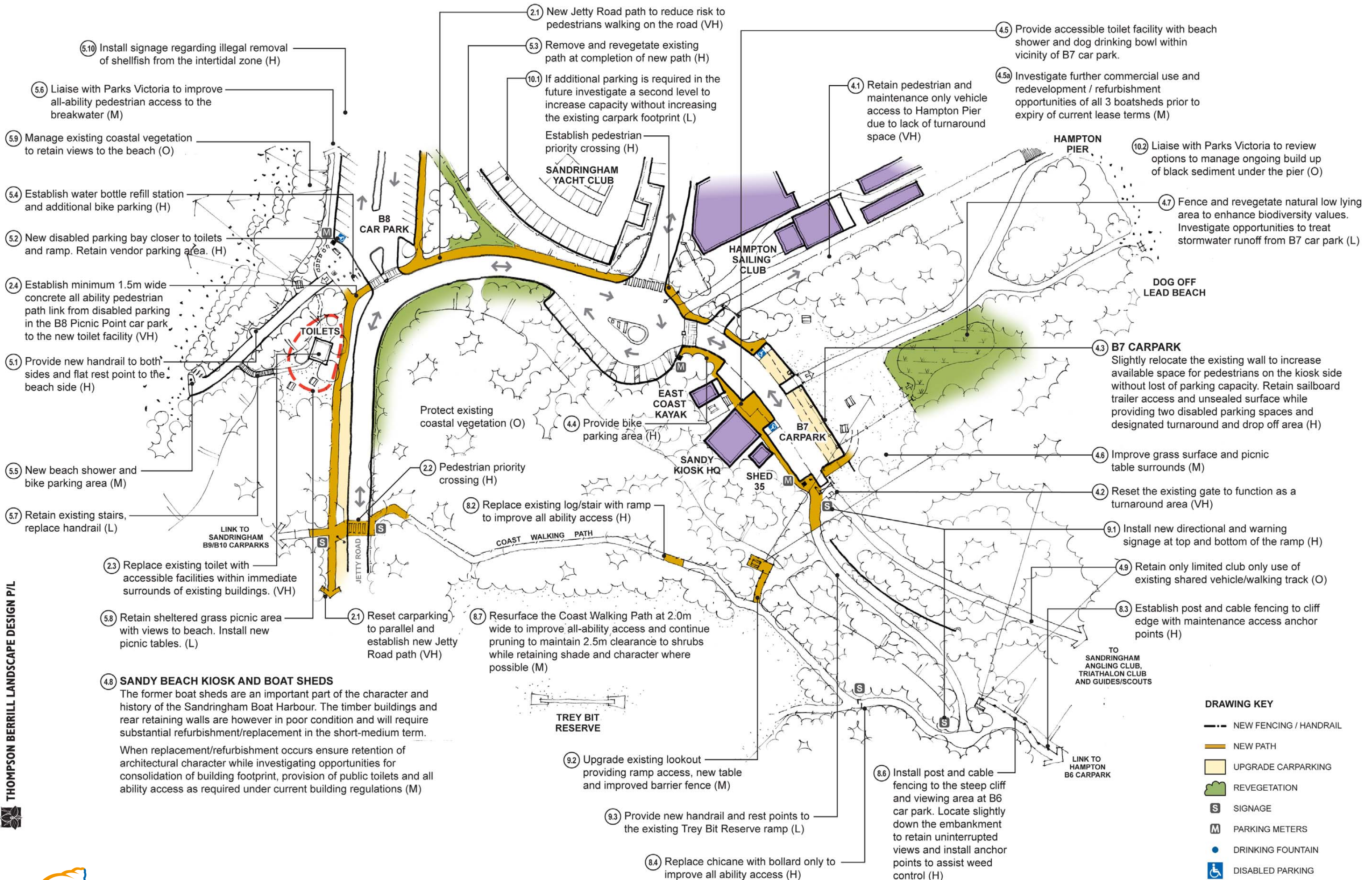


Figure.12

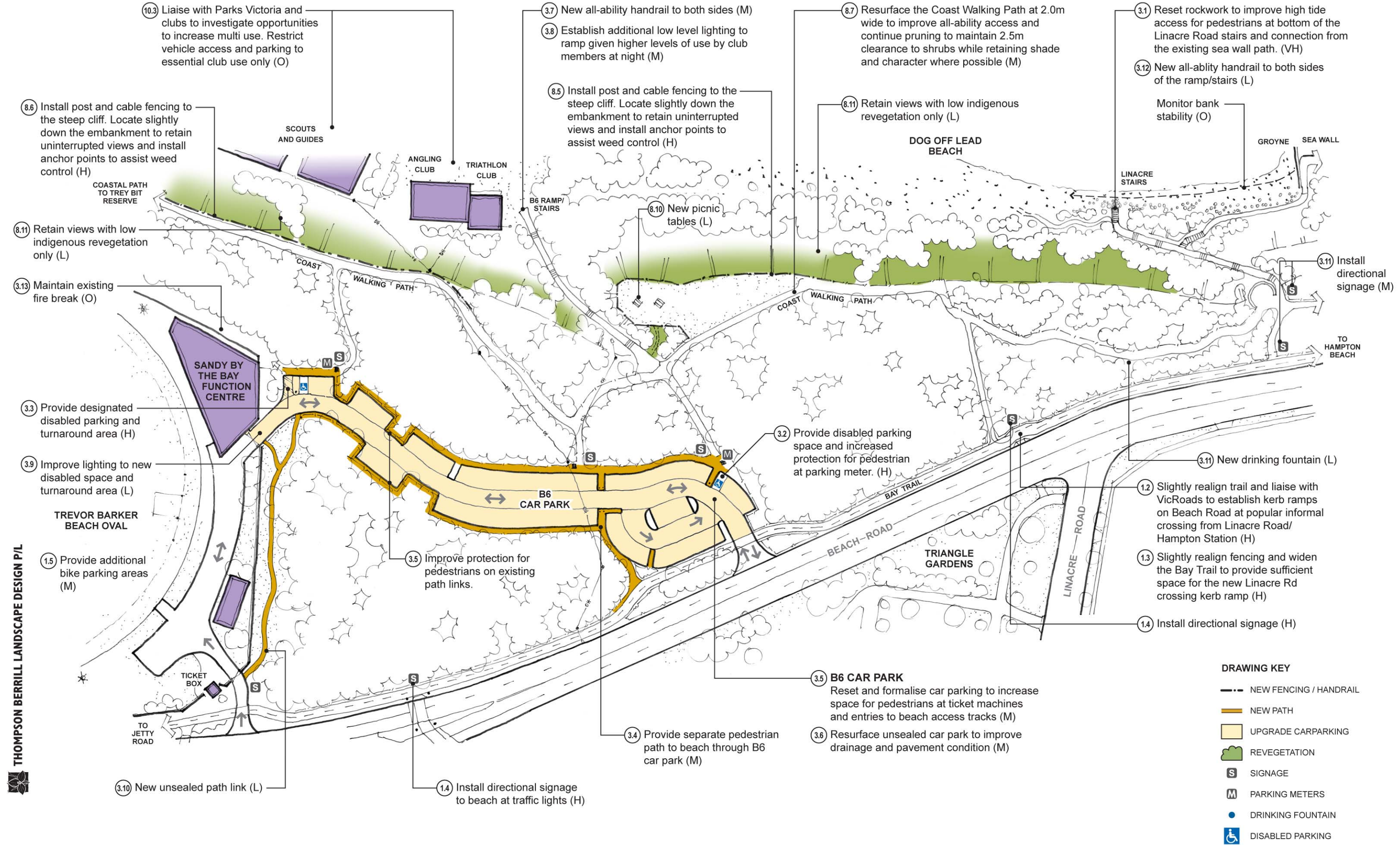


Figure.13



DRAWING KEY

	NEW FENCING / HANDRAIL
	NEW PATH
	UPGRADE CARPARKING
	REVEGETATION
	SIGNAGE
	PARKING METERS
	DRINKING FOUNTAIN
	DISABLED PARKING

Figure.14

IMPLEMENTATION SCHEDULE - SUMMARY

IMPLEMENTATION

The following section provides an overview of the indicative capital costs to implement key improvements and actions identified in the Master Plan. Priorities have been allocated to enable consideration of staging of works subject to confirmation of funding availability.

The size and large number of facilities and assets contained within Sandringham Foreshore mean that staging of works will likely be required. The following summary of priorities, staging and timing for delivery the works is for discussion purposes only. It is anticipated in the process of implementation some works may need to be bought forward i.e due to the need for urgent maintenance or as part of cost effective delivery of other projects and in all cases priorities should be viewed as a guide only.

- Very High (1-2 years)

These actions include works identified in previous plans and strategies where provisional Council funding has already been allocated and projects are moving toward implementation.

- High (3-5 years)
- Medium (6-8 years)
- Low (9-10 years)
- Ongoing (part of current programs/works)

Please note all works estimates are for preliminary planning purposes, prepared without access to survey and detailed design and are a guide only.

The adoption of the Sandringham Foreshore Masterplan by Council does not constitute a decision to proceed with any identified opportunities. It provides a long-term concept to guide decision making and will be subject to future decisions and funding considerations by Council.

MASTER PLAN WORKS SUMMARY	PRIORITIES				TOTAL
STUDY AREA	VERY HIGH	HIGH	MEDIUM	LOW	
BEACH ROAD - BAY TRAIL	\$0	\$15,000	\$2,500	\$10,800	\$28,300
JETTY ROAD	\$285,000	\$120,000	\$15,000	\$0	\$420,000
B6 CARPARK AND LINACRE ROAD BEACH ACCESS	\$10,000	\$11,000	\$324,000	\$58,000	\$403,000
B7 CARPARK AND SANDY BEACH KIOSK	\$3,500	\$82,500	\$150,000	\$30,000	\$266,000
B8 CARPARK AND BEACH ACCESS	\$0	\$36,000	\$15,000	\$16,000	\$67,000
B9 CARPARK AND JETTY ROAD SOUTH	\$0	\$560,000	\$44,400	\$33,500	\$637,900
B10 CARPARK AND BEACH ACCESS	\$0	\$0	\$201,000	\$30,000	\$231,000
COASTAL WALK	\$0	\$94,500	\$105,000	\$24,000	\$223,500
TREY BIT RESERVE	\$0	\$1,000	\$20,000	\$30,000	\$51,000
SANDRINGHAM BOAT HARBOUR AND LEASE AREAS	\$0	\$0	\$0	\$0	\$0
VOLUNTEER COAST GUARD AND SANDRINGHAM FOOTBALL CLUB	\$10,000	\$0	\$17,640	\$1,810	\$29,450
CULTURAL HERITAGE	\$0	\$50,000	\$0	\$0	\$50,000
SUBTOTAL SANDRINGHAM FORESHORE WORKS	\$308,500	\$970,000	\$894,540	\$234,110	\$2,407,150
CONTINGENCIES (20%)					\$481,430
TOTAL SANDRINGHAM FORESHORE MASTER PLAN - CAPITAL IMPLEMENTATION WORKS					\$2,888,580

IMPLEMENTATION SCHEDULE

* Costs are preliminary only – subject to survey and detailed design

Item No	Dwg ref.	Action Description	Amount	Item	Rate	Cost	Priority	Agency responsible for approval	Agency responsible for funding	Related Works
BEACH ROAD - BAY TRAIL										
1.1	DP-A	Liaise with VicRoads to establish kerb ramps and accessible median to improve informal access across Beach Road at Abbott Street.	1	Item		\$6,000	High	VicRoads	BCC	1.5 and 7.2
1.2	DP-C	Liaise with VicRoads to establish kerb ramps on Beach Road at popular informal crossing from Linacre Road / Hampton Station.	1	Item		\$4,500	High	VicRoads	BCC	1.3
1.3	DP-C	Slightly realign fencing and widen the Bay Trail to provide sufficient space for the new Linacre Rd crossing kerb ramp.	1	Item		\$1,500	High	BCC	BCC	1.2
1.4	DP A,C	Install directional signage to beach on Beach Road-Bay Trail at existing traffic lights and new informal crossing points at Abbott St & Linacre Rd.	4	No.	\$750	\$3,000	High	BCC	BCC	1.1 and 1.2
1.5	DP-C	Provide additional bike parking within Trevor Barker Oval.	1	Item	\$2,500	\$2,500	Medium	BCC	BCC	1.1
1.6	DP-A	Provide a new unsealed path link from Abbott Street to the Coast Walking Path continuing coastal revegetation while maintaining clear sightlines (M).	90	lin.m	\$120	\$10,800	Low	BCC	BCC	1.1
		SUBTOTAL BEACH ROAD - BAY TRAIL				\$28,300				
JETTY ROAD										
2.1	DP-A	Provide new Jetty Road path link from Beach Road to Picnic Point including speed humps, road works, kerbs, retaining wall(s) and planting as per the GDA Plans.	1	Item		Completed	Very High	BCC	BCC	2.2
2.2	DP-A	Provide new pedestrian priority crossing on Jetty Road for the coast walking path.	1	Item		Completed	Very High	BCC	BCC	2.1
2.3	DP-B	Replace existing bluestone toilet block on Jetty Road and provide disabled access.	1	Item		\$275,000	Very High	BCC	BCC	2.1
2.4	DP-B	Establish minimum 1.5m wide concrete all ability pedestrian path link from disabled parking in the B8 Picnic Point car park to the new toilet facility.	1	Item		\$10,000	Very High	BCC	BCC	2.1
2.5	DP-A	Establish a roundabout to slow traffic speed and improve turnaround capacity for vehicles looking for parking off Jetty Road, subject to detailed traffic engineering design. Retain access for boat trailers and long vehicles	1	Item		\$100,000	High	BCC	BCC	2.1
2.6	DP-A	Widen and improve pedestrian links and overflow parking access into Trey Bit Reserve from Jetty Road for major events.	1	lin.m		\$15,000	High	BCC	BCC	2.5
2.7	DP-D	Investigate restoring unsealed through road connection between the Football Club and Coast Guard car parking areas to improve vehicle circulation and access to car parking. Retain 2-5 designated parking spaces for the Coast Guard.	1	Item		\$15,000	Medium	BCC - Coast Guard - Football Club	BCC/Coast Guard/Football Club	
2.8	DP-A	Following establishment of new Jetty Road path review use of enclosed/hidden picnic areas south of Jetty Road. Close and revegetate if there is no increase in existing low levels of use.	1	Item		N/C	Ongoing	BCC	BCC	2.1
2.9	DP-D	Review and upgrade directional and entry signage at the Beach Road - Jetty Road entry.	1	Item		\$5,000	High	BCC	BCC	
		SUBTOTAL JETTY ROAD				\$420,000				
B6 CARPARK AND LINACRE ROAD BEACH ACCESS										
3.1	DP-C	Reset rockwork to improve high tide access for pedestrians at Linacre Road stairs and for the popular link between the dog beach and Hampton Beach sea wall promenade. Continue ongoing monitoring of bank stability.	1	Item		\$10,000	Very High	BCC	BCC	
3.2	DP-C	Upgrade vehicle control to improve protection for pedestrians at the parking meters and establish a disabled parking space.	1	Item		\$1,000	High	BCC	BCC	3.4
3.3	DP-C	Provide signed designated disabled parking and turnaround area at the southern end of B6 car park.	1	Item		\$10,000	High	BCC	BCC	
3.4	DP-C	Provide separated pedestrian path through the B6 carpark to the beach access from the Bay Trail.	1	Item		\$10,000	Medium	BCC	BCC	3.2

IMPLEMENTATION SCHEDULE

* Costs are preliminary only – subject to survey and detailed design

Item No	Dwg ref.	Action Description	Amount	Item	Rate	Cost	Priority	Agency responsible for approval	Agency responsible for funding	Related Works
3.5	DP-C	Reset and formalise vehicle control in B6 car parking using timber bollards/barriers to increase space and safety for pedestrians to improve parking efficiency.	1	Item		\$50,000	Medium	BCC	BCC	3.1 and 3.2
3.6	DP-C	Resurface B6 car park to improve unsealed pavement and drainage.	2,800	m2	\$50.00	\$140,000	Medium	BCC	BCC	3.5
3.7	DP-C	Install new all ability handrail to both sides of the B6 ramp/stairs.	120	lin.m	\$200	\$24,000	Medium	BCC	BCC	3.8
3.8	DP-C	Establish additional low level lighting to improve safety at beach access ramp and for access to popular evening viewing areas given higher levels of use at night. Proposed lighting to be solar where possible.	1	Item		\$100,000	Medium	BCC	BCC	3.9 and 8.5
3.9	DP-C	Improve lighting at Sandy by the Bay end of B6 car park. Proposed lighting to be solar where possible (M).	1	Item		\$20,000	Low	BCC	BCC	3.8
3.10	DP-C	Provide new unsealed path link along the North wall of the Trevor Barker Oval (L).	100	lin.m	\$120	\$12,000	Low	BCC	BCC	3.3
3.11	DP-C	Install new drinking fountain on the Coast walk (M).	1	Item		\$2,000	Low	BCC	BCC	
3.12	DP-C	Install new all-ability handrail to both sides of existing Linacre Road stairs .	120		\$200	\$24,000	Low	BCC	BCC	
3.13	DP-C	Maintain existing fire break around Trevor Barker Oval.	1	Item		N/C	Ongoing	BCC	BCC	
SUBTOTAL B6 CARPARK AND LINACRE ROAD BEACH ACCESS						\$403,000				
B7 CARPARK AND SANDY BEACH KIOSK										
4.1	DP-B	Restrict public vehicle access and parking at the end of Hampton Pier using a PV management vehicle only access gate due to lack of turnaround space to minimise conflicts with pedestrians.	1	Item		\$2,500	Very High	PV	BCC	2.1 and 4.2
4.2	DP-B	Reset the existing access gate and establish a signed turnaround area for cars entering the B7 car park.	1	Item		\$1,000	Very High	BCC	BCC	4.3
4.3	DP-B	Slightly relocate the existing sea wall to increase available space for pedestrians on the kiosk side without lost of parking capacity in the B7 car park. Retain as unsealed while providing two disabled parking spaces and designated turnaround area. Pending on historical significance, an option is to remove the sea wall completely and replace with an alternative barrier to prevent cars accessing the foreshore reserve as part of the carpark design (H).	1	Item		\$80,000	High	BCC	BCC	4.2 and 4.7
4.4	DP-B	Provide bike parking area at Sandy Beach Kiosk.	1	Item		\$2,500	High	BCC	BCC	2.1 and 4.2
4.5	DP-B	Provide accessible toilet facility with beach shower and dog drinking bowl within vicinity of B7 car park.	1	Item		\$150,000	Medium	BCC	BCC	
4.6	DP-B	Improve grass surface and picnic table surrounds opposite the kiosk (M).	3	No.		\$10,000	Low	BCC	BCC	4.8
4.7	DP-B	Fence and revegetate natural low lying area to enhance biodiversity values. Investigate opportunities to treat stormwater runoff from B7 carpark (L).	1	Item		\$20,000	Low	BCC	BCC	4.3
4.8	DP-B	The former boat sheds are an important part of the character and history of the Sandringham Boat Harbour. The timber buildings and retaining walls are however in poor condition and will require substantial refurbishment/replacement in the short-medium term. When replacement / refurbishment occurs ensure retention of architectural character while investigating opportunities for consolidation of site and provision of public toilets and all ability access as required under current building regulations (M).	1	Item			Low	BCC		
4.9	DP-B	Retain only limited club use of existing shared vehicle / walking track.	1	Item		N/C	Ongoing	PV	PV	4.3
SUBTOTAL B7 CARPARK AND SANDY BEACH KIOSK						\$266,000				

IMPLEMENTATION SCHEDULE

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Item No	Dwg ref.	Action Description	Amount	Item	Rate	Cost	Priority	Agency responsible for approval	Agency responsible for funding	Related Works
B8 CARPARK AND BEACH ACCESS										
5.1	DP-B	Provide new handrail to both sides of the existing B8 car park beach access ramp and flat rest point to beach side.	100	lin.m	\$250	\$25,000	High	BCC	BCC	5.2
5.2	DP-B	Install new disabled parking bay closer to toilets and B8 beach access ramps.	1	Item		\$500	High	BCC	BCC	5.1
5.3	DP-B	Remove and revegetate existing path at completion of the new Jetty Road path. Refer Item 2.1	1	Item		N/C	High	BCC	BCC	2.1
5.4	DP-B	Establish water bottle refill station and additional bike parking at the top of the B8 car park beach access ramp.	1	Item		\$10,000	High	BCC	BCC	2.1 and 5.1
5.5	DP-B	Provide new beach shower and bike parking area at the bottom of the B8 Beach Access ramp.	1	Item		\$10,000	Medium	BCC	BCC	2.1 and 5.1
5.6	DP-B	Liaise with Parks Victoria to improve pedestrian links to the breakwater.	1	Item		\$5,000	Medium	BCC	BCC	
5.7	DP-B	Retain existing stairs, replace handrails on path link to toilets.	40	lin.m	\$250	\$10,000	Low	BCC	BCC	5.3
5.8	DP-B	Retain sheltered grass picnic area with views to beach. Replace existing picnic tables.	2	No.		\$6,000	Low	BCC	BCC	5.1
5.9	DP-B	Manage existing coastal vegetation to retain views to the beach from the B8 car park.	1	Item		N/C	Ongoing	BCC	BCC	
5.10	DP-B	Install signage regarding illegal removal of shellfish from the intertidal zone.	1	Item		\$500	High	DELWP	DELWP	
		SUBTOTAL B8 CARPARK AND BEACH ACCESS				\$67,000				
B9 CARPARK AND JETTY ROAD SOUTH										
6.1	DP-A	Seal the carpark through road, improve drainage/ provide integrated water quality treatment for B9 Jetty Road carpark. Retain parking bays as unsealed.	1	Item		\$500,000	High	BCC	BCC	6.2
6.2	DP-A	Replace existing timber vehicle control bollards and barriers to improve clearance to the Coastal Walk and for pedestrian protection at parking meters.	1	Item		\$60,000	High	BCC	BCC	
6.3	DP-A	Provide pedestrian priority crossing at B9 carpark entry as part of new roundabout establishment.	1	Item		Refer 6.1	High	BCC	BCC	2.5
6.4	DP-A	Improve pedestrian crossing through the B9 carpark from the Bamfield Street entry and picnic area.	30	lin.m	\$120	\$3,600	Medium	BCC	BCC	6.2
6.5	DP-A	Investigate establishment of a north-south unsealed path link.	90	lin.m	\$120	\$10,800	Medium	BCC	BCC	2.5 and 6.8
6.6	DP-A	Replace handrail (both sides) and provide a resting point at mid point on the ramp if possible.	120	lin.m	\$250	\$30,000	Medium	BCC	BCC	
6.7	DP-A	Replace handrail (both sides) and install signage to B9 south stairs.	110	lin.m	\$250	\$27,500	Low	BCC	BCC	
6.8	DP-A	Retain and upgrade existing picnic area east of B9 car park.	1	Item		\$6,000	Low	BCC	BCC	6.5
		SUBTOTAL B9 CARPARK AND JETTY ROAD SOUTH				\$637,900				
B10 CARPARK AND BEACH ACCESS										
7.1	DP-A	Provide two disabled parking spaces and sealed path link to the Croquet Club from the B10 Abbott Street.	1	Item		\$50,000	Medium	BCC	BCC	7.2 and 7.3
7.2	DP-A	Reset the entry to B10 carpark to enable cars to wait off the shared trail when turning in/out from Beach Road.	1	Item		\$50,000	Medium	BCC	BCC	7.1
7.3	DP-A	Resurface the north end of the B10 car park and turnaround and incorporate WSUD.	1	Item		\$50,000	Medium	BCC	BCC	7.1 and 7.2

IMPLEMENTATION SCHEDULE

* Costs are preliminary only – subject to survey and detailed design

Item No	Dwg ref.	Action Description	Amount	Item	Rate	Cost	Priority	Agency responsible for approval	Agency responsible for funding	Related Works
7.4	DP-A	Reset carparking in B10 carpark to widen access for the coast path. Provide a dedicated turnaround area and replace existing vehicle barriers.	1	Item		\$50,000	Medium	BCC	BCC	7.1, 7.2 and 7.3
7.5	DP-A	Upgrade entry / exit protection to the existing beach stairs and install directional signage to the nearest ramp at B9 car park (M).	1	Item		\$1,000	Medium	BCC	BCC	7.4
7.6	DP-A	Replace handrail (both sides) and install signage (L).	120	lin.m	\$250	\$30,000	Low	BCC	BCC	7.5
SUBTOTAL B10 CARPARK AND BEACH ACCESS						\$231,000				
COASTAL WALK										
8.1	DP-A	Close duplicated secondary tracks away from the main coast path and revegetate to improve biodiversity and habitat values.	100	lin.m	\$50	\$5,000	High	BCC	BCC	
8.2	DP-A	Replace existing log steps with a graded ramp to improve all ability access on the coast path.	30	lin.m	\$500	\$15,000	High	BCC	BCC	8.8
8.3	DP-B	Establish post and cable fencing to cliff edge with maintenance access points (H).	100	lin.m	\$200	\$20,000	High	BCC	BCC	8.1
8.4	DP-B	Replace chicane with bollard only to improve all ability access on north entry from Trey Bit Reserve.	1	Item		\$500	High	BCC	BCC	
8.5	DP-C	Install post and cable fencing to the steep cliff and viewing area at B6 car park. Locate slightly down the embankment to retain uninterrupted views and install anchor points to assist weed control (L).	110	lin.m	\$200	\$22,000	High	BCC	BCC	8.6 and 8.13
8.6	DP-C	Install post and cable fencing to the steep cliff behind Scouts / Guides. Locate slightly down the embankment to retain uninterrupted views and install anchor points to assist weed control.	160	lin.m	\$200	\$32,000	High	BCC	BCC	8.13
8.7	DP-A DP-B DP-C	Resurface the existing Coast Walk in granitic gravel to improve all-ability access and undertake careful planning to maintain clearance.	1,000	lin.m	\$100	\$100,000	Medium	BCC	BCC	8.2, 8.3 and 8.6
8.8	DP-A	Remove duplicated chain mesh fencing on the Beach Road side of the Coast Walk. Utilise logs and revegetation to define the route.	1	Item		\$3,000	Medium			
8.9	DP-A	Replace drinking fountain and maintain shallow overflow for wildlife.	1	Item		\$2,000	Medium	BCC	BCC	
8.10	DP-C	New picnic tables with shade provided and is facing towards cliff viewing area near B6 car park.	2	No.	\$3,000	\$6,000	Low	BCC	BCC	8.6
8.11	DP-C	Undertake staged weed control and revegetation of the steep escarpment behind Trevor Barker Oval - B6 car park.	1,200	m2	\$15	\$18,000	Low	BCC	BCC	8.5 and 8.6
SUBTOTAL COASTAL WALK						\$223,500				
TREY BIT RESERVE										
9.1	DP-B	Install new directional and warning signage at top and bottom of the ramp down to the Sandy Kiosk / B7 car park.	2	No.	\$500.00	\$1,000	High	BCC	BCC	9.3
9.2	DP-B	Upgrade existing lookout providing ramp access, new table and improved barrier fence.	1	Item		\$20,000	Medium	BCC	BCC	
9.3	DP-B	Provide new handrail to both sides of the existing Trey Bit Reserve ramp and investigate provision of a mid ramp rest point on the coast side.	150	lin.m	\$200.00	\$30,000	Low	BCC	BCC	9.1
SUBTOTAL TREY BIT RESERVE						\$51,000				

IMPLEMENTATION SCHEDULE

* Costs are preliminary only – subject to survey and detailed design

Item No	Dwg ref.	Action Description	Amount	Item	Rate	Cost	Priority	Agency responsible for approval	Agency responsible for funding	Related Works
SANDRINGHAM BOAT HARBOUR AND LEASE AREAS										
10.1	DP-B	If additional parking is required in the future investigate a second level to increase capacity without increasing the existing carpark footprint (L).	1	Item		N/C	Low	PV - Sandringham Yacht Club	PV/Sandringham Yacht Club	
10.2	DP-B	Liaise with Parks Victoria to review options to manage ongoing build up of black sediment under the pier (O).	1	Item		N/C	Ongoing	PV	PV	
10.3	DP-C	Liaise with Parks Victoria and clubs to control vehicle access and parking at the Angling Club, Triathlon Club and Guides / Scouts. Investigate opportunities to increase multi-use of existing buildings.	1	Item		N/C	Ongoing	PV - Angling Club, Triathlon Club and Scouts/Guides	PV/ Angling Club, Triathlon Club and Scouts/Guides	
		SUBTOTAL SANDRINGHAM BOAT HARBOUR AND LEASE AREAS				\$0				
VOLUNTEER COAST GUARD AND SANDRINGHAM FOOTBALL CLUB										
11.1	DP-D	Remove temporary signage where it block sightlines on exit to Beach Road from Jetty Road.	1	Item		N/C	Very High	BCC	BCC	
11.2	DP-D	Improve drainage at entry	1	Item		\$10,000	Very High	BCC	BCC	
11.3	DP-D	Develop written shared parking agreement between VCG and SFC. This will control the number of entry passes available to both and any operational conditions.	1	Item		N/C	Medium	BCC / VCG / SFC	BCC/VCG/SFC	
11.4	DP-D	Establish one-way only access for Coast Guard and Football Club to improve safety and access to parking and reopen the link between Coast Guard and Football Club carparks to create safer one way system with defined parking and turn around areas.	1	Item		\$500	Medium	VCG / SFC	BCC/SFC	
11.5	DP-D	Establish new 'Exit Only' electronic gate to one way system	1	Item		\$15,000	Medium	SFC	SFC	
11.6	DP-D	Change to 'Entry Only' gate using pass system to restrict access	1	Item		N/C	Medium	VCG	VCG	
11.7	DP-D	Install post and cable fence to protect coastal vegetation	365	lin.m	\$80	\$445	Medium	BCC	BCC	
11.8	DP-D	Retain three volunteer Coast Guard only designated parking bays for radio operators	1	Item		\$500	Medium	BCC	BCC	
11.9	DP-D	Retain signed clear zone at roller door	1	Item		\$500	Medium	BCC	BCC	
11.10	DP-D	Resurface existing unsealed carpark	645	m2	\$50	\$695	Medium	BCC	BCC	
11.11	DP-D	Resurface unsealed parking and through road at the Volunteer Coast Guard and Sandringham Football Club carparks	1,760	m2	\$50	\$1,810	Low	BCC	BCC	
11.12	DP-D	Retain existing Elm trees and clear sightlines at Bay Trail crossing	1	Item		N/C	Ongoing	BCC	BCC	
11.13	DP-D	Retain vehicle access to mobile phone tower	1	Item		N/C	Ongoing	BCC	BCC	
11.14	DP-D	Maintain existing fire break	1	Item		N/C	Ongoing	BCC	BCC	
11.15	DP-D	Protect heritage listed walls.	1	Item		N/C	Ongoing	BCC	BCC	
		SUBTOTAL VOLUNTEER COAST GUARD AND SANDRINGHAM FOOTBALL CLUB				\$29,450				
CULTURAL HERITAGE										
12.1		Undertake a surface survey and review previously registered sites within the area identified in Figure 10 - and amalgamate all identified sites of cultural heritage significance and register with the Office of Aboriginal Affairs Victoria.	1	Item		\$50,000	High	BCC / OAAV	BCC/OAAV	
SUBTOTAL SANDRINGHAM FORESHORE MASTER PLAN WORKS				\$2,407,150						
Contingencies (20%)				\$481,430						
TOTAL SANDRINGHAM FORESHORE MASTER PLAN - CAPITAL IMPLEMENTATION WORKS				\$2,888,580						

NOTE: The majority of non-costed items are achievable within existing service budgets.

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