

BRIGHTON BEACH TO FERDINANDO GARDENS DRAFT MASTERPLAN









Thompson Berrill Landscape Design P/L 26 July 2016

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INTRODUCTION

The Brighton Beach to Ferdinando Gardens draft Masterplan aims to guide design, priorities and staging of on ground works on Council managed land along the foreshore. The plan, implements the recommendations of Council endorsed strategic plans including the Bayside Open Space Strategy (2012) and Bayside Coastal Management Plan (BCMP 2014).

The scope of the study area extends from Brighton Beach South Road (south of Green Point) to Hampton Beach Linacre Road and includes Ferdinando Gardens.

The plan will inform the Council capital works program, funding applications and priorities for infrastructure renewal, replacement and redevelopment over the next decade. The plan will also be a key tool to assist Council in obtaining required coastal management consent from Department of Environment, Land, Water and Planning (DELWP) for implementation of on ground projects within the precinct.

The Bayside Open Space Strategy 2012 (BOSS 2012) classifies the precinct as municipal open space. It caters for Bayside residents, tourists and other regional visitors from outside the City. Municipal and regional spaces in Bayside are intended to cater for a diverse range of interests and have a wider catchment because of the unique features they offer. Visits to these spaces are often two hours plus in duration and typical features consist of shade, car parking, toilets, drinking fountains and BBQs.

The BOSS 2012 defines the primary function of the Brighton Beach to Ferdinando Gardens precinct as being for social and family recreation. This means the area provides or has potential to provide for a range of social and family recreation to suit all ages, including informal sport, exercise, dog walking, picnicking, informal play, playgrounds and walking.

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 masterplan. The BCMP provides the strategic direction for actions and works proposed within the draft masterplan. The key objectives for the draft master plan include:

- Improve access and safety on the designated Coast Walking Path, maintaining existing character while sustainably managing for increasing future use.
- · 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 beach level promenade link to Sandringham Harbour.
- Investigate the option for indented parallel parking on Beach Road as recommended in the Beach Road Corridor Strategy 2012.
- Investigate opportunities to further activate Ferdinando Gardens as an activity node for year round public use.
- Identify opportunities to rationalise duplicated secondary tracks and paths to reduce impacts on environmental and cultural heritage values.
- · Improve all ability access to the beach, paths, toilets, parking and picnic areas, and club based facilities.
- Review and prioritise replacement and upgrade of existing facilities in accordance with Council
- Support improved public access and multi-use of club base facilities.





LAND MANAGEMENT

The foreshore from Brighton Beach to Ferdinando Gardens is Crown Land with Bayside City Council as delegated Committee of Management in accordance with the requirements of the Crown Land Reserves Act 1978, Coastal Management Act 1995 and the Bayside Coastal Management Plan 2014. The masterplan is being prepared to directly guide future works priorities and staging on Council managed land.

The foreshore between South Road and Linacre Road is Crown Land and is zoned Public Park and Recreation Zone (PPRZ) in the *Bayside Planning Scheme*. Building on the foreshore is subject to a Design Development Overlay (DDO1) and the requirements *Victorian Coastal Strategy (2014)* and the *Bayside Coastal Management Plan (2014)*. General requirements in this area include:

- · Increasing multi-use of existing buildings in any building redevelopment
- No net increase in building footprint and seek rationalisation of existing buildings where possible in any redevelopment works.
- · Prioritising coastal dependant uses.
- Protecting and enhancing the foreshore environment and views of Bayside from Port Phillip Bay.
- Any new development must be of approvable scale and relate to the landform of the coast.

HAMPTON LIFE SAVING CLUB (HLSC)

The Hampton Life Saving Club coordinates patrols by volunteer life savers every Saturday, Sunday and Public Holiday from mid November to Easter Monday. The club was established in 1909 as a swimming club. A double storey, wooden clubhouse was built in 1923 and served the club until 1997.

The current two storey building was constructed in 1998 and includes an air-conditioned and centrally heated upstairs function room, kitchen, office and patrol room with magnificent views out over Port Phillip Bay. Downstairs are the boat and board storage areas, kiosk, gym, first aid room, and change rooms. There club currently has over nine hundred members and a lack of storage space, access to beach showers and change room space have been identified as issues by the club.

HLSC run a small kiosk selling soft drinks and ice creams on busy beach days and there are mobile vendor spaces in the Green Point car park and B5 South Road car park. Despite the lack of commercial facilities in the area, the lack of car parking and available foreshore space limit opportunity for new development.

FERDINANDO GARDENS

The gardens are named after Benjamin James Ferdinando, former Mayor of Sandringham and are covered by their own Conservation Mangement Plan (Tract 2013). There is a large picnic shelter, picnic tables and public barbeque facilities at Ferdinando Gardens with elevated views out over Sandringham Boat Harbour and Hampton Beach. The sheltered historic formal gardens are popular for weddings and picnics. Increasing use by personal trainers and fitness groups is impacting on lawns and park furniture where used for step ups etc.



Photo 2: Hampton Life Saving Club



Photo 3: Brighton Beach coast walking path



Photo 4: The Swimmer Brighton Beach

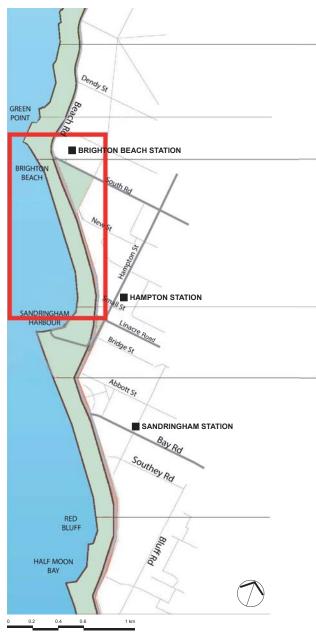


Figure 1 Context Plan / Bayside Coastal Management Plan 2014



CULTURAL HERITAGE

CULTURAL HERITAGE

Aboriginal people's occupation of what is now known as the Bayside Foreshore dates back many thousands of years and the area contains registered cultural heritage sites and places that are protected under the provisions of the *Aboriginal Heritage Act (2006)*. The Act recognises Aboriginal people as the primary guardians of their cultural heritage and has established a process for Aboriginal groups to apply to be registered as Registered Aboriginal Parties (RAPs). Currently there is no appointed RAP for Bayside and requirements for ongoing protection and management of indigenous cultural heritage will continue to be co-ordinated by Council through the Office of Aboriginal Affairs Victoria.

Ballygyl (Green Point) is a registered indigenous Historic Place, however there has been significant historical disturbance of land along the foreshore between Brighton Beach and Ferdinando Gardens and there are no known registered sites within the study area. (Rhodes 2007)



Photo 5: Ferdinando Gardens

BRIGHTON BEACH RAILWAY PRECINCT

Green Point and Brighton Beach have long been a major attraction for residents and visitors. The St. Kilda and Brighton Railway Company was incorporated in 1857, and obtained permission to lay a line from Brighton Beach to Windsor, and a loop line between Fitzroy Street, St. Kilda, and the Windsor Station, which was then known as the Chapel Street Station. Approval to extend the line to South Road was granted in 1861 and the tunnel/underpass at South Road was built by the company when it expected that Brighton would become an important port. However in the following year the line was overtaken by the Melbourne Railway Co. and trains were rerouted on the current Sandringham Line from Richmond and South Yarra.

The railway line connection to the foreshore meant the area continued to be a popular destination for both holiday makers and day trippers. In 1878 the State Government took over ownership of the line and 1879 work started on designing the formal lawns and garden at Green Point. This included planting projects, public conveniences, a band rotunda and a kiosk. The area drew large crowds eager to enjoy the hotel, cafes, sea baths, pier and the formal

and informal gardens at Green Point and Ferdinando Gardens. The gardens are characterised and defined by open lawn areas, gravel pathways edged in stone along with several significant mature exotic trees and palms. The retention of the garden layout is critical to the protection of their heritage character. Trains continued to terminate at Brighton Beach until 1887 when the line was extended to Sandringham. (Allom Lovell 2003)



Photo 6: HO 162 The Esplanade, Brighton - Tramway Tunnel

SEA WALLS

When bathing boxes became popular, most of the beach in this area had two rows, but these were gradually removed as the beach was affected by storms. During the Great Depression councils were encouraged to employ local men on relief work (also known as 'Sussos') In 1930 Brighton City Council decided on a project to protect local beaches from further erosion by building bluestone walls and rock facings. The stones in this area and other seawalls on the foreshore at Black Rock and Sandringham were taken from the outer walls of the Old Melbourne Gaol. Some stones had been inscribed with letters and numbers. When prisoners were executed, they were not given a marked grave or headstone, but were buried inside the gaol walls and a stone was inscribed with their initials and date of death.

The stone sea walls protected the foreshore however they caused a scouring effect and the beach soon disappeared. Over the years various attempts were made to retain the sand but these were only partially effective. The resultant almost total loss of foreshore meant that vegetation was lost and the whole area fell into general disrepair. Sandringham City Council and residents' groups petitioned the State Government for many years, climaxing with a Renourishment Rally on the beach in 1996, attended by a huge crowd. Renourishment began in 1997 with the construction of two stone groynes along the foreshore and the extension and upgrading of the New Street groyne. 156,000 cubic metres of sand was pumped in from a site offshore. Heavy machinery then repositioned a 50 metre wide stretch of sand to create the new beach. A further program of beach renourishment was completed in 2015 with construction of another two rock groynes.

The following areas are protected by Heritage Overlays in the Bayside Planning Scheme:

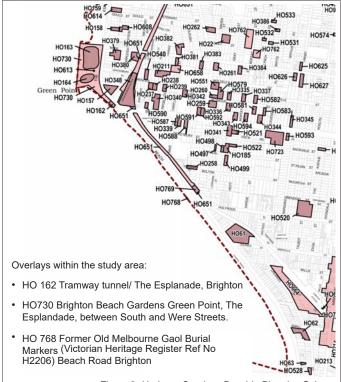


Figure 2: Heritage Overlays Bayside Planning Scheme

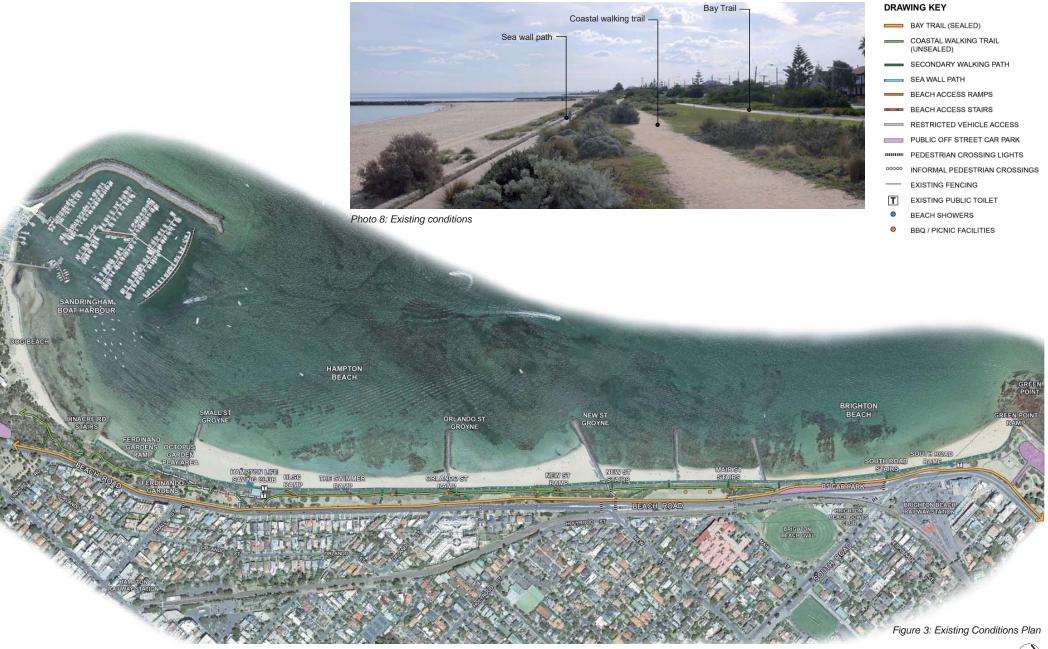
Indigenous and European cultural heritage must be protected during master plan implementation, and on sites where major ground breaking work is involved a due diligence Cultural Heritage Assessment will be required.



Photo 7: Existing sea wall



EXISTING CONDITIONS PLAN





EXISTING FACILITIES

PUBLIC TOILETS

Brighton Beach public toilet facilities are located at the end of South Road. Recently upgraded they are accessible from both the beach and Bay Trail. Hampton Beach public toilets are Exeloo facilities located on the ground and upper floor of the Life Saving Club. Public toilets along the foreshore provide for disabled access, are co located with beach showers and are in generally good condition.

Assessment completed as part of the *Bayside Public Toilet Strategy 2012* recommended the establishment of a new public toilet facility on the foreshore in the vicinity of New Street.



Photo 9: Public toilets at Brighton Beach

BEACH SHOWERS AND DRINKING FOUNTAINS

The beach shower at Brighton Beach is located on the beach side of the sea wall path and services existing use. The beach shower at Hampton Beach is located on the south side of the Hampton Life Saving Club. It is used by both the club, casual beach users and popular with dog walkers using the Sandringham dog beach. The drainage outfall can block with sand causing flooding in the first aid room and over the sea wall path.

There are drinking fountains at Ferdinando Gardens, Hampton Life Saving Club, Green Point and the South Road toilet facilities. Proposed works include:

- Relocate the existing beach shower and drinking fountain at Hampton Life Saving Club to the beach side and provide a second shower closer to the public toilet facilities/change room. (M) Refer Detail Plan
- · Establish a new sustainable water bottle refill station at Brighton Beach (M)
- Replace the existing drinking fountain at Ferdinando Gardens with an accessible facility located closer to the proposed all ability path link from Small Street to the beach access ramp. (M)
- Establish a new drinking fountain and dog drinking bowl with overflow base providing water for native wildlife at the top of the Linacre Road stairs. (L)



Photo 10: Beach shower at Brighton Beach

OCTOPUS GARDEN PLAYGROUND

The informal climbing wall and rubber surfaced play space at beach level below Ferdinando Gardens has limited equipment and is not well used. The sea wall path is wider in this area and the protected beach and proximity to water and the graded access ramp make this area popular for visitors with small children and prams. There is no seating or functional shade/shelter and the existing seawall and path are in need of replacement. DELWP are planning to replace the timber groyne and undertake further beach renourishment in the near future.

There are opportunities to investigate redevelopment of the Octopus Garden Playground as a salt water play/splash pad area with additional shade and picnic/seating facilities. Refer Detail Plan C



Photo 11: Octopus Garden Playground, Ferdinando Gardens

LOOKOUTS

There are elevated lookouts with interpretative signage as part of the Coastal Arts Trail at Ferdinando Gardens and Green Point.



Photo 12: Green Point Lookout

EXISTING PARKING

GREEN POINT CAR PARK

The recently upgraded Green Point car park provides 4 hour ticketed car parking for visitors to Brighton Beach including 125 standard car parking spaces, accessible and coach parking bays.

B5 SOUTH ROAD CAR PARK

The B5 car park is located at the end of South Road opposite the Brighton Beach Bowls Club. It provides 4 hour ticketed car parking for visitors to Brighton Beach and includes 50 standard car parking spaces with no designated accessible or coach parking bays.



Photo 13: B5 carpark

STATION CAR PARKING

There is car and coach parking provided at Hampton and Brighton Beach Stations both of which are in close proximity to the beach.

BEACH ROAD

There is no parking at Ferdinando Gardens or at Hampton Life Saving Club however on street car parking is provided on both sides of Beach Road outside Clearway and No Stopping periods. Beach Road is the primary parking area for visitors to Hampton Beach. On street parking restricts traffic flow during peak periods and creates pinch points and reduced safety for cyclists and pedestrians using Beach Road. The establishment of indented parking within the nature strip and foreshore reserve, while reducing overall parking capacity, could improve both safety and traffic flow. Refer to Figure 4

EMERGENCY ACCESS

There is emergency and maintenance vehicle access to the rear of Hampton Life Saving Club (HLSC) via the gate south of Small Street. There is restricted access to the beach via Orlando Street Ramp, New Street Ramp and from Green Point car park.



Photo 14: Emergency access to Hampton Life Saving Club



FORESHORE VEHICLE ACCESS AND PARKING

Indented parallel parking requires a parking bay width of 2.1m with 1.0m clearance to cyclists using Beach Road. On the foreshore side another 1.0m clearance is required for cyclists on the Bay Trail. It is also likely that the Bay Trail may need to be widened to 3.0m in the future to accommodate increasing use and this also needs to be considered in assessing opportunities for establishment of indented parking on the foreshore side.

The benefits to indenting parallel parking on the foreshore side are limited by the following constraints:

- Establishment of a mix of indented and on street car parking is not preferred as it creates additional pinch points and hazards to cyclists and vehicles.
- The need to avoid existing trees and light poles on the foreshore will reduce overall parking capacity on the beach side of Beach Road.
- Existing no stopping zones will remain and it will not be possible to establish indented parking at Hampton Life Saving Club, the major source of congestion, without significant removal of vegetation protected by the existing Vegetation Protection Overlay.

The following opportunities have been assessed as part of the draft master plan. Refer O'Brien Traffic Report, Appendix 2 for further detail:

Option (1) Maintain status quo

 Option ② Indented parking on the residential side between New Street and Small Street

This can be achieved without loss of on street parking capacity and would improve traffic flow, safety for cyclists, pedestrians and access to parking for residents. This results in a net gain of 6 -11 spaces.

Option $\ensuremath{ \ensuremath{ \ \ \ }}$ Indented parking on the foreshore side without relocation of the Bay Trail.

18 indented car parking bays can be established on the foreshore side without removal of vegetation. However this will reduce the overall existing on road parking capacity in this section by approximately 55 spaces.

Option 4 Indented parking on the foreshore side increasing capacity by relocating the Bay Trail where possible but without removal of trees or native vegetation.

A further 29 indented car parking spaces can be established on the foreshore side if 350m of the Bay Trail is relocated and re built. Note the need to protect existing trees will mean the overall existing on road parking capacity in this section is reduced by 26 spaces.



Insufficient room for indented parking without

removal of vegetation

DRAWING KEY

Potential 32-47 indented parking bays along Beach Road



Figure 4: Indented parking options

PEDESTRIAN AND CYCLE ACCESS

BAY TRAIL - SHARED PATH

The 2.5m wide concrete Bay Trail provides continuous off road access for both pedestrians and cyclists travelling along Beach Road. Increasing use of the trail by cyclists and pedestrians may mean the entire path will eventually need to be widened to at least 3.0m in accordance with current standards. However where the trail is located adjoining grass areas or low vegetation there is less risk and congestion and other locations along the foreshore will be a higher priority. Recent assessment confirmed a number of trail pinch points through the study area that require improvement as a high priority: These include:

At South Road, cyclists on the Bay Trail, walkers using the coast walking path and visitors accessing the beach and public toilets from Brighton Beach Station and the B5 car park at the former tramway underpass all use the same section of 2.5m wide ramped path. To reduce congestion in this section, it is porposed to realign the concrete Bay Trail up onto the edge of Beach Road, relocate light poles and kerb to achieve required path width and restrict through cyclist access to the ramp (H). Refer Detail Plan A.

At the B5 car park the 2.5m wide Bay Trail is confined on both sides by fencing and the car park timber retaining wall. Beach visitors and walkers exiting the car park cross the trail at several points. It is proposed to close the pedestrian access points from the car park onto the narrow confined path section to reduce congestion and conflicts with cyclists in the short term. Establish speed control in the car park and encourage pedestrians to cross to beach access stairs and ramps at either end of the car park where the path is less constrained (H).

Longer term, establish a boardwalk to enable the path to be widened to 3.5m where confined on both sides(M). Refer to Photo 17.



Photo 17: B5 South Road Carpark at the Bay Trail

At Ferdinando Gardens the former brick gardeners shed c.1920 is located directly adjoining the Bay Trail. The shed is empty and no longer used by Council and can be permanently closed to reduce risk to cyclists when the door is open. Reduce height and clearance to vegetation on either side as per the existing Conservation Management Plan recommendations. (M) Refer Photo 18.



Photo 18: Garden Shed Ferdinando Gardens

SEA WALL PATH

The bluestone sea wall and concrete path extend for over 1.2km along both Brighton and Hampton Beach front from Green Point to Ferdinando Gardens and form a popular link in the coastal walking path.

The existing sea wall path terminates in a short set of bluestone stairs at the southern end. At high tide there is restricted access on the beach through to the Linacre Road stairs and Sandringham Harbour. Recent construction of timber stairs has improved access to Linacre Road however the informal track at the toe of the steep bank is unstable, subject to ongoing erosion and is unlikely to be sustainable in the longer term.



Photo 19: Sea Wall Path

It is recommended to liaise with DELWP during beach renourishment works to extend existing rockwork and formalise a high tide all ability path access from the end of the existing sea wall path through to the Linacre Road stairs and Sandringham dog beach. (H) Refer to Detail Plan D

RECREATIONAL WALKING PATHS

The unsealed walking path running along the cliff top parallel with Beach Road winds its way through the low coastal vegetation offering elevated views out to the Bay. It varies in width and is popular with walkers of all ages and abilities. Low timber boardwalks provide access over drainage lines and ephemeral wetlands for visitors crossing through to the beach access stairs and ramps. Cyclists are discouraged from using the walking path to minimise congestion and impacts on sensitive coastal vegetation and habitat values. Priority works include:

- Replace sections of log stairs south of Ferdinando Gardens using an all ability graded durable composite fibre mesh ramp backfilled with local granitic gravel/sand. (H) Refer to detail Plan D
- Install low key directional and 'code of conduct' signage at key entry points and intersections to emphasis the path is for walkers not cyclists or high performance training athletes. (H)
- Retain fencing to the coast side only using more natural log edging to define the trail alignment. Replace timber post and cable fencing where required. (H)
- Improve unsealed path alignment behind the Hampton Life Saving Club to cater for increased traffic if future access is reduced behind the existing building. (L) Refer Detail Plan C



Photo 20: Unsealed walking path



BEACH ACCESS

Brighton and Hampton Beaches are both well serviced by a range of access ramps and stairs. The stone stairs all have handrails however the graded ramps do not limiting accessibility for some users with restricted mobility. The use of the sea wall path by cyclists is not permitted, however provision of additional bike parking racks at the bottom of selected wider ramps could encourage more visitors to cycle rather than drive to the beach, especially if they can leave their bike in a more visible location while on the beach.

Priorities for upgrades are as follows:

Green Point Ramp

The concrete ramp provides access from the public car park and accessible parking bays to the beach and public toilet facilities. Establish new handrails to both sides but retain signage as 'no cycle access' as there is existing bike parking in the car park and no direct access to the beach at this point. (H)



Photo 21: Green Point Ramp

South Road Ramp

The concrete ramp provides access from the railway station, B5 public car park and Bay Trail to the beach and public toilet facilities. It is propsed to realign the Bay Trail to reduce congestion, establish new handrails to both sides, install signage indicating cyclists must dismount on the ramp and provide new bike racks at beach level at the tramway underpass entry. (H) Refer Detail Plan A



Photo 22: South Road Ramp

New Street Ramp

The existing unsealed ramp provides direct connection from the Bay Trail and pedestrian lights on Beach Road and railway crossing at New Street. It is proposed to establish a new 3.5m wide concrete maintenance vehicle access and all ability access ramp with handrails to both sides and bike racks at beach level on the rock groyne side of the seawall path. (L)



Photo 23: New Street Ramp

Orlando Street Ramp

The narrow concrete ramp provides access to the north end of Hampton Beach from Beach Road and the existing pedestrian crossing. It is proposed to establish new handrails to both sides but retain signage as 'no cycle access' as there is limited opportunity for bike parking at beach level given required maintenance vehicle access to the drain outfall. (L)



Photo 24: Orlando Street Ramp

The Swimmer Sculpture Ramp

The narrow concrete ramp behind The Swimmer sculpture provides access to Hampton Beach from Beach Road and the unsealed walking path. It is proposed to establish new handrails to both sides but retain signage as 'no cycle access' as there is limited opportunity for bike parking at beach level in this location. (L)



Photo 25: The Swimmer sculpture ramp

Hampton Life Saving Club Ramp

The concrete ramp provides access to Hampton Beach and the Life Saving Club from Beach Road and the unsealed walking path. The ramp is used by the club to transport equipment down to beach level using their motorised quad bike. It is proposed to establish new handrails to both sides and bike racks at beach level where the sea wall path is wider. (M)

Ferdinando Gardens Ramp

A long wide concrete ramp provides graded access to the beach from Ferdinando Gardens and the existing pedestrian crossing at Small Street. The ramp is well used as the southern termination of the sea wall path enables walkers to complete a circuit loop returning via the coast walking path. There are opportunities to:

- Establish new handrails to both sides of the ramp (H)
- · Upgrade handrails/fencing at the upper lookout. (M)
- Improve all ability access to the ramp from Small Street pedestrian crossing and Hampton Station by sealing the existing unsealed path link in sand coloured concrete. (M) Refer to photo 24



Photo 26: Path link at Ferdinando Gardens



FLORA AND FAUNA

The foreshore is one of the largest areas of remnant coastal vegetation in Bayside. The foreshore from Brighton Beach to Ferdinando Gardens contains areas of Coastal Dune Grassland (EVC 879) 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.

VEGETATION PROTECTION OVERLAY (VPO)

Native vegetation along the foreshore from Brighton Beach to Ferdinando Gardens is covered by a Vegetation Protection Overlay (VPO1) in the *Bayside Planning Scheme* Refer to Figure 5. 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.

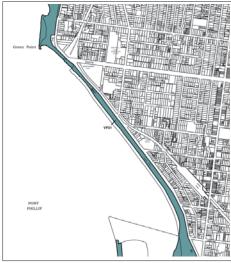




Photo 27: Coastal Headland Scrub (EVC 161)





Figure 6: Existing vegetation types

FLORA AND FAUNA

The majority of vegetation within the study area has been modified by historic land stabilisation and erosion control associated with Beach Road and the foreshore sea wall and paths. Ongoing Council management of the foreshore aims to maintain and enhance existing native vegetation, undertaking staged revegetation using low growing indigenous species to improve habitat values while maintaining existing views from Beach Road and the path network. A permit is required to remove vegetation other than as part of weed control, fire prevention, public safety and road safety management actions.

For detailed Ecological Assessment refer Appendix 1 EHP Draft Ecological Assessment. Priority actions include:

- (1) Remove high threat woody weeds including African Boxthorn. (H)
- ② Undertake targeted removal of Gazania and invasive grasses such as Kikuyu and Buffalo Grass where they occur outside closely mown lawn areas. (M)
- (3) Investigate opportunities to expand low lying swales and ephemeral areas to provide treatment for stormwater runoff from Beach Road to improve water quality in the bay and biodiversity and habitat values on the foreshore. (M)
- (4) Protect existing areas of native vegetation, undertake ongoing maintenance as required to maintain pedestrian sight lines and infill with low coastal indigenous species to improve habitat values while retaining views. (O)
- (5) Formal gardens at Green Point, Brighton Beach and Ferdinando Gardens contain mixed exotic and native planting and lawn areas. Continue to implement recommendations from existing conservation management plans including:
- · Protection and replacement of mature exotic trees

ORLANDO ST

 Retention of historic path alignments and garden beds with infill using low indigenous coastal species

NEW ST

· Retain formal lawn areas

HAMPTON

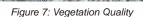


Photo 29: Priority Revegetation



Photo 30: Successful indigenous revegetation at Brighton Beach

VEGETATION QUALITY HIGH MODERATE MODERATE-LOW LOW LOW FORMAL GARDENS Source: EHP Ecological Assessment, April 2016





SOUTH ROAD

OVERALL IMPLEMENTATION PLAN

CULTURAL HERITAGE

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

FERDINANDO GARDENS

- 1 Protect the existing park furniture, trees and lawns associated with the historic gardens from overuse by personal trainers and fitness groups. (H)
- (2) Establish new handrails to both sides of the beach access ramp and upgrade fencing at the upper lookout. (M)
- (3) Improve all ability access to the ramp from Small Street pedestrian crossing and Hampton Station by sealing the existing unsealed path link in sand coloured concrete. (M)
- (4) Upgrade the existing Octopus Garden Playspace providing a new water play splash pad, improved beach access and shade shelter with integrated (9) Install new all ability hand rail to both sides of existing beach access ramp seating and picnic tables. (L) Refer Detail Plan C

COAST WALKING PATH

- (5) Install low key directional and 'code of conduct' signage at key entry points and intersections on the coast walking path to emphasis the path is for walkers not cyclists or high performance training athletes operating at high
- (6) Liaise with DELWP during beach renourishment works to extend existing rock work and formalise high tide all ability path access from the end of the existing sea wall path through to the Linacre Road stairs and Sandringham dog beach. (H)
- (7) Establish a new drinking fountain and dog drinking bowl with overflow base providing water for native wildlife at the top of the Linacre Road stairs. (L)

HAMPTON BEACH

- (8) Install signage at each beach access point indicating ramp grade/condition with directions to better access points as staged handrail upgrades are completed. (H)
- north of HLSC. (H)
- (10) Reconfigure storm water flows into the low lying sand dunes/ephemeral soaks (opposite Orlando Street) to enable surface runoff from Beach Road to inflow into these ephemeral soaks to improve water quality treatment prior to discharge to the beach. (L)

BRIGHTON BEACH

- (2) Realign the Bay Trail to the edge of The Esplanade at South Road to improve safety at the former Tramway underpass and main beach access.
- (13) Establish two signed accessible parking bays and line mark and sign a designated shared pedestrian access through the B5 car park. (H)
- (14) Longer term investigate options to widen the confined section of Bay Trail to 3.5m using a cantilevered boardwalk with new handrail to the beach
- (15) Establish orientation and directional signage for new visitors at South Road.
- (b) Install handrails to both sides of the existing Green Point ramp (M)
- (17) Establish a low profile skillion roof shade shelter with integrated timber seating to improve sun protection for beach users below South Road and Hampton Life Saving Club. (M)
- (18) Install new timber seats along the sea wall path (M)
- (19) Establish a new 3.5m wide concrete maintenance access and all ability access ramp at New Street with handrails to both sides and bike racks at beach level on the rock groyne side of the seawall path. (M)
- 20) Liaise with Melbourne Water investigate options to mitigate flooding and establish a Gross Pollutant Trap and storm water harvesting system for the New Street drain outfall. Works to include installation of large underground storage tank in the open grass area between New Street and Mair Street to





BEACH ACCESS RAMPS

BEACH ACCESS STAIRS

EXISTING FENCING

EXISTING PUBLIC TOILET NEW PUBLIC TOILET

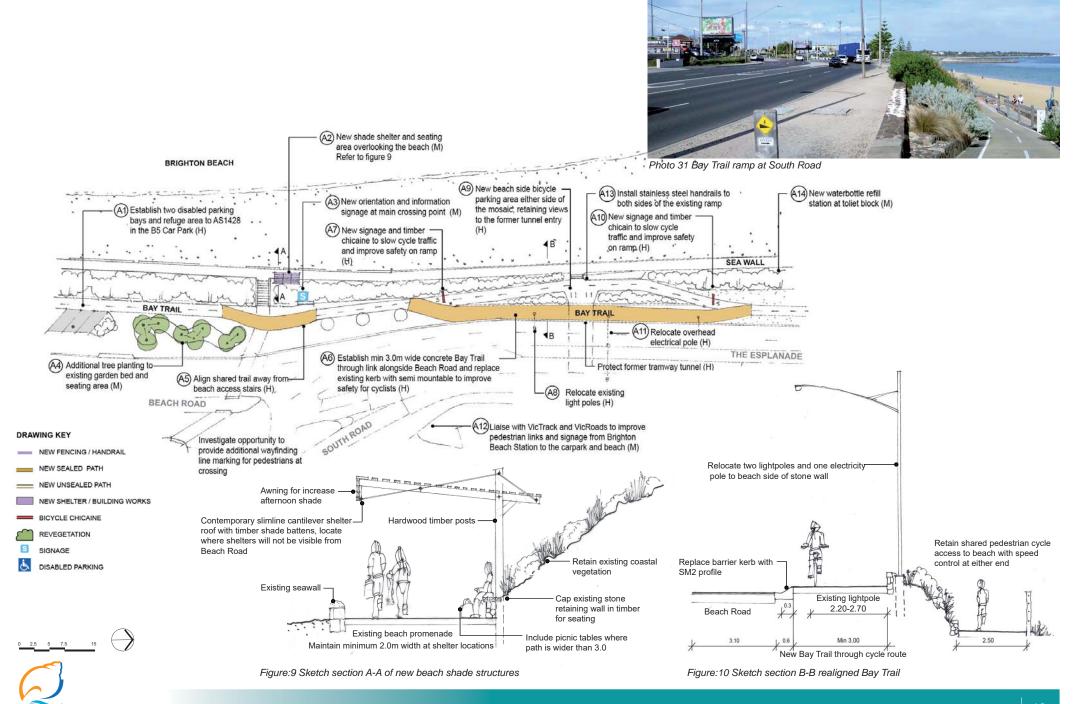
BEACH SHOWERS



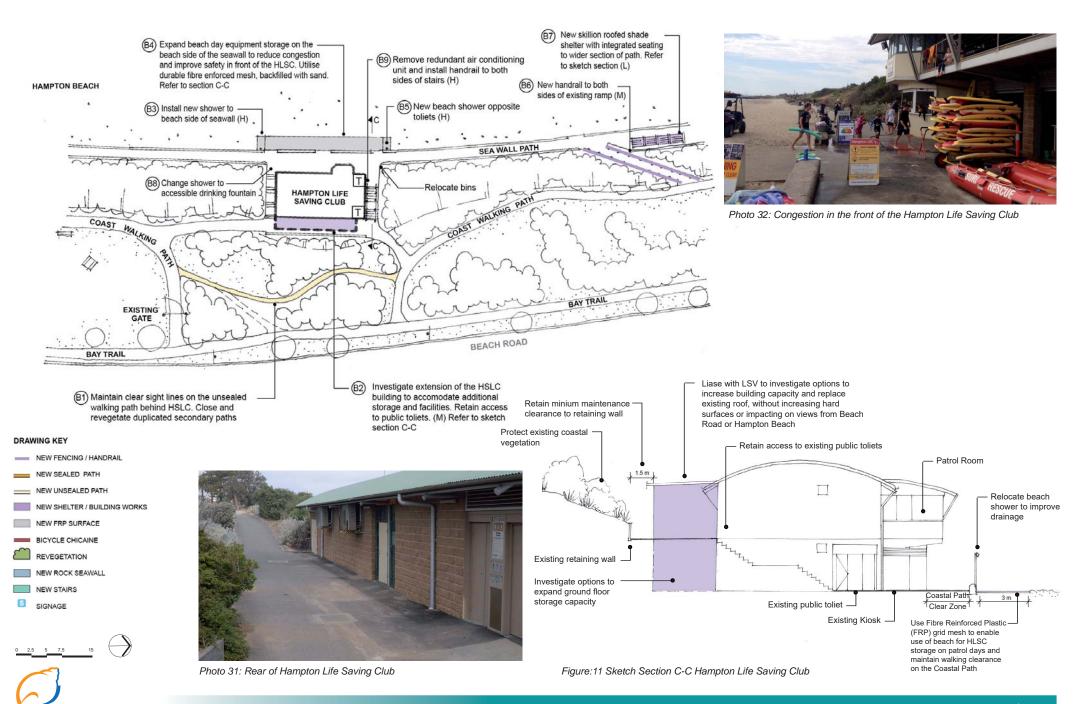


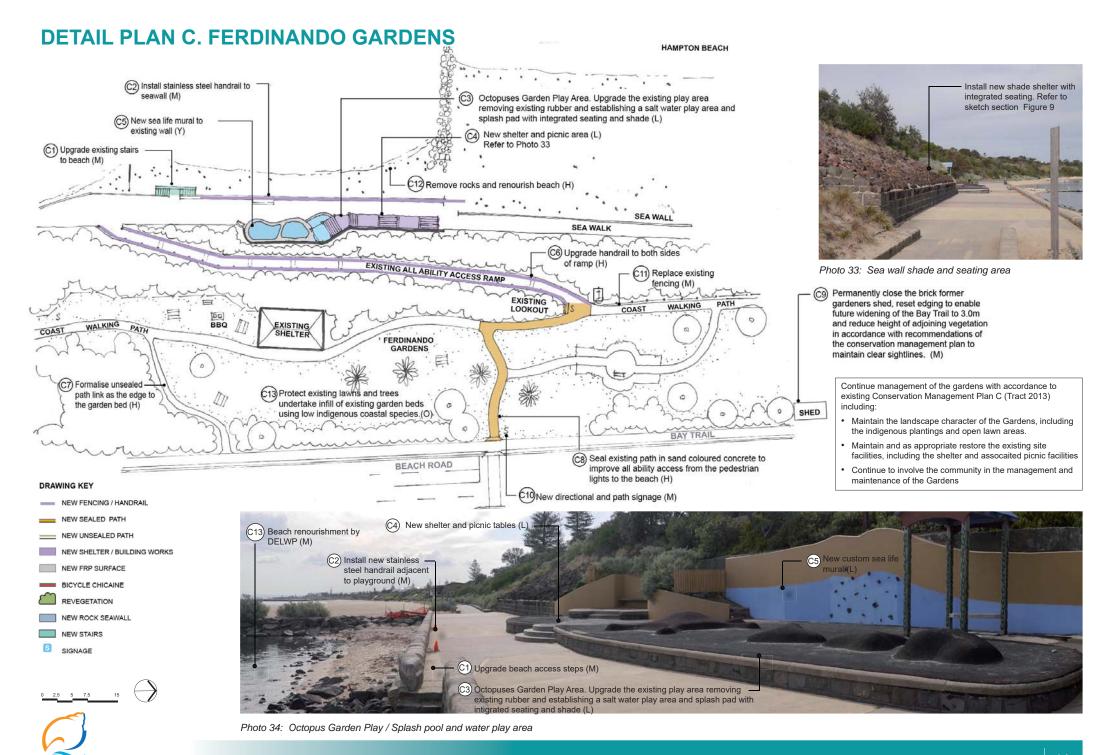
DETAIL PLAN A. BAY TRAIL SOUTH ROAD

Bayside



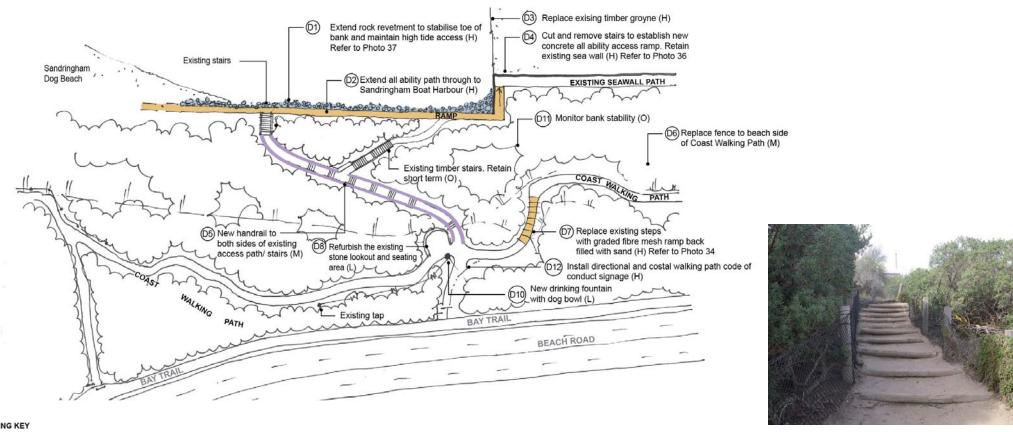
DETAIL PLAN B. HAMPTON LIFE SAVING CLUB





Bayside

DETAIL PLAN D. LINACRE ROAD



DRAWING KEY

NEW FENCING / HANDRAIL

NEW SEALED PATH

NEW UNSEALED PATH

NEW SHELTER / BUILDING WORKS

NEW FRP SURFACE

BICYCLE CHICAINE

REVEGETATION

NEW ROCK SEAWALL







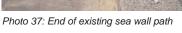




Photo 35: Stairs to be replaced in coast walking path

Photo 38: Future high tide path link to Sandringham Boat Harbour

Implementation Schedule - Summary

IMPLEMENTATION

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

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 Brighton Beach - Ferdinando Gardens 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.

| DRAFT MASTER PLAN WORKS SUMMARY | | PRIORITIES | TOTAL | TOTAL | |
|--|---------------|------------|-------------|-------------|-------------|
| STUDY AREA | HIGH | MEDIUM | LOW | BCC | OTHERS |
| BRIGHTON BEACH | \$260,500 | \$465,000 | \$340,000 | \$905,500 | \$160,000 |
| HAMPTON BEACH | \$5,000 | \$87,500 | \$905,000 | \$605,000 | \$392,500 |
| HAMTPON LIFE SAVING CLUB | \$90,000 | \$0 | \$2,000 | \$37,000 | \$55,000 |
| FERDINANDO GARDENS | \$69,600 | \$165,000 | \$720,000 | \$954,600 | \$0 |
| LINACRE ROAD TO FERDINANDO GARDENS | \$311,000 | \$85,000 | \$61,500 | \$207,500 | \$250,000 |
| OTHER WORKS | \$50,000 | \$0 | \$370,000 | \$50,000 | \$370,000 |
| SUBTOTAL WORKS | \$786,100 | \$802,500 | \$2,398,500 | \$2,759,600 | \$1,227,500 |
| CONTINGENCIES (20%) | | | | \$551,920 | \$245,500 |
| TOTAL BRIGHTON BEACH - FERDINANDO GARDENS CAPITAL IMPLEMENTATION WORKS | MASTER PLAN - | | | \$3,311,520 | \$1,473,000 |



| Item No | Dwg ref. | Action Description | Amount | Item | Rate | Cost | Priority | Agency responsible for approval | Agency responsible for funding | Related Works |
|---------|-------------|---|--------|-------|----------|-----------|----------|---------------------------------|--------------------------------|------------------|
| BRIGHT | ON BEA | CH | | | | | | | | |
| 1.1 | A1 | Establish two signed accessible parking bays including protection bollard to AS1428 at the northern end of the B5 South Road car park. | 1 | Item | | \$5,000 | High | BCC | BCC | |
| 1.2 | A6 | Realign the Bay Trail to the edge of The Esplanade at South Road to improve safety at the former Tramway underpass and main beach access. Works to include: | 1 | Item | | | High | | | |
| 1.2.1 | | Survey and detailed design investigation for new works in consultation with VicRoads. | 1 | Item | | \$25,000 | High | VicRoads | BCC | |
| 1.2.2 | | Traffic Management during works (provisional estimate only) | 1 | Item | | \$40,000 | High | VicRoads | VicRoads | |
| 1.2.3 | A8 | Relocate existing light and electricity poles (to allow for realigned path) | 3 | No. | \$15,000 | \$45,000 | High | United Energy-ZNX | VicRoads | 1.2.1 |
| 1.2.4 | A6 | Demolish and replace existing B2 kerb &channel with SM2 profile | 100 | lin.m | \$200 | \$20,000 | High | VicRoads | VicRoads | 1.2.1 |
| 1.2.5 | A6 | Replace unsealed pavement with min. 3.0m wide coloured concrete path | 100 | lin.m | \$300 | \$30,000 | High | VicRoads | VicRoads | 1.2.1 |
| 1.2.6 | A6 | Remove and re line mark traffic lanes and new trail. | 1 | Item | | \$25,000 | High | VicRoads | VicRoads | 1.2.1 |
| 1.2.7 | A7 | Install signage and timber chicanes on both sides of the existing ramp in front of the tramway tunnel to slow through cycle traffic and improve safety for pedestrians. | 2 | No. | \$2,500 | \$5,000 | High | BCC | BCC | 1.2.1 |
| 1.2.8 | A13 | Install handrails to both sides of the existing South Road ramp to AS1428 to improve all ability access to the beach. | 200 | | \$250 | \$50,000 | High | BCC | BCC | 1.2.1 |
| 1.3 | A9 | Install bike racks and signage at beach level in front of the tramway tunnel | 1 | Item | | \$5,000 | High | BCC | BCC | 1.2.1 |
| 1.4 | A5 | Realign the Bay Trail away from the top of the South Rd Beach Access steps (line marking only) | 1 | Item | | \$500 | High | BCC | BCC | 1.6 |
| 1.5 | | Line mark and sign a designated shared pedestrian access through the B5 car park to the beach. | 1 | Item | | \$10,000 | High | BCC | BCC | 1.5 |
| 1.6 | | Establish a new sustainable water bottle refill station at Brighton Beach. | 1 | Item | | \$10,000 | Medium | BCC | BCC | 1.2.1 |
| 1.7 | | Longer term investigate options to widen this section of trail to 3.5m using a boardwalk with new handrail to the beach side. | 200 | lin.m | \$1,500 | \$300,000 | Medium | BCC | BCC | 1.4 |
| 1.8 | A3 | Establish orientation and directional signage for new visitors to Brighton Beach opposite the existing pedestrian crossing from South Road and the railway station. | 1 | Item | | \$10,000 | Medium | BCC | BCC | 1.3 & 1.7 |
| 1.9 | | Liaise with VicRoads and VicTrack to improve signage on pedestrian links from Brighton Beach Station and car park to Brighton Beach. | 1 | Item | | \$5,000 | Medium | Vicroads-VicTrack | BCC | 1.6 |
| 1.1 | A4 | Establish additional mature tree planting to existing garden bed and seating area. | 1 | Item | | \$5,000 | Medium | BCC | BCC | 1.4 |



| Item No | Dwg ref. | Action Description | Amount | Item | Rate | Cost | Priority | Agency responsible for approval | Agency responsible for funding | Related Works |
|---------|-------------|--|--------|-------|---------|-------------|----------|---------------------------------|--------------------------------|------------------|
| 1.1 | | Install handrails to both sides of the existing Green Point ramp to AS1428 to improve all ability access to the sea wall path, toilet facilities and beach | 120 | lin.m | \$250 | \$30,000 | Medium | BCC | BCC | |
| 1.12 | | Establish a low profile skillion roof shade shelter with integrated timber seating and retaining wall to improve sun protection for beach users on Brighton Beach below South Road. | 1 | Item | | \$80,000 | Medium | DELWP | BCC | |
| 1.13 | | Subject to evaluation of shade shelter use provide additional shelters and improved seating at other wider sections of sea wall path at Brighton Beach. | 1 | Item | | \$40,000 | Low | DELWP | ВСС | 1.10 |
| 1.14 | | Install new seats along the Sea wall path using standard BCC park furniture. | 10 | No. | \$2,500 | \$25,000 | Medium | BCC | BCC | |
| 1.15 | | Continue foreshore weed eradication works and revegetate with appropriate low ground cover species in accordance with nominated EVC. | 1 | Item | | \$50,000 | Ongoing | ВСС | BCC | |
| 1.16 | | Assessment completed as part of the Bayside Public Toilet Strategy 2012 recommended the establishment of a new public toilet facility on the foreshore in the vicinity of New Street. | 1 | Item | | \$250,000 | Low | DELWP | BCC | |
| | | SUBTOTAL BRIGHTON BEACH | | | | \$1,065,500 | | | | |
| НАМРТО | N BEAC | СН | | | | | | | | |
| 2.1 | | Install signage at each beach access point indicating ramp grade/condition with directions to better access points as staged upgrades are completed | 10 | No. | \$500 | \$5,000 | High | ВСС | BCC | |
| 2.2 | | Install new all ability hand rail to both sides of existing beach access ramp north of HLSC. | 50 | lin.m | \$250 | \$12,500 | Medium | BCC | BCC | 2.1 |
| 2.3 | | Replace existing seats along the Sea Wall Path with standard BCC timber seat with arm and back rest. | 10 | Item | \$2,500 | \$25,000 | Medium | BCC | BCC | |
| 2.4 | | Establish a new 3.5m wide concrete maintenance access and all ability access ramp at New Street with handrails to both sides and bike racks at beach level on the rock groyne side of the seawall path. | 1 | Item | | \$50,000 | Medium | ВСС | BCC - MELB WATER - DELWP | 2.9 |
| 2.5 | | Establish new handrails to both sides to the Orlando Street beach access ramp but retain signed as 'no cycle access' as there is limited opportunity for bike parking at beach level given required maintenance vehicle access to the drain outfall. | 80 | lin.m | \$250 | \$20,000 | Low | BCC | BCC | 2.1 |
| 2.6 | | Install new all ability hand rail to both sides of The Swimmer sculpture ramp but retain signed as 'no cycle access' as there is limited opportunity for bike parking at beach level in this location. (L) | 80 | lin.m | \$250 | \$20,000 | Low | BCC | BCC | 2.1 |



| Item No | Dwg ref. | Action Description | Amount | Item | Rate | Cost | Priority | Agency responsible for approval | Agency responsible for funding | Related Works |
|---------|-------------|--|--------|--------|----------|-----------|----------|---------------------------------|--------------------------------|------------------|
| 2.7 | | Install small shade shelters and upgrade existing recessed seating areas (south of the B5 car park) by timber cladding the stone seats. | 2 | No. | \$40,000 | \$80,000 | Low | BCC | BCC | 1.10 |
| 2.8 | | Continue foreshore weed eradication works and revegetate with appropriate low ground cover species in accordance with nominated EVC. | 1 | Item | | \$50,000 | Low | BCC | BCC | |
| | | Liaise with Melbourne Water investigate options to mitigate flooding and establish a Gross Pollutant Trap and stormwater harvesting system for the | 1 | Design | | \$50,000 | Medium | MELB WATER | BCC / MW | |
| 2.9 | | New Street Drain Outfall. Works to include installation of large underground storage tank in the open grass area between New Street and Mair Street to improve sustainability of irrigation at Brighton Beach Oval. (Subject to confirmation of MW-Hobsons Bay Sewer Upgrade Works) | 1 | Works | | \$580,000 | Low | DELWP | BCC - MELBOURNE WATER | 2.4 |
| 2.10 | | Reconfigure stormwater flows into the low lying sand dunes/ephemeral soaks (opposite Orlando Street) to enable surface runoff from Beach Road to inflow into these ephemeral soaks to improve water quality treatment prior to discharge to the beach. (Subjecto confirmation of MW-Hobsons Bay Sewer Upgrade Works) | 1 | Item | | \$105,000 | Low | BCC | BCC - MELB WATER | |
| | | SUB TOTAL HAMPTON BEACH | | | | \$997,500 | | | | |
| HAMPTO | N LIFE | SAVING CLUB (HLSC) | | | | | | | | |
| 3.1 | В9 | Remove the redundant air conditioning units on the HLSC north side stairs and install new handrail to improve beach access. | 1 | Item | | \$15,000 | High | BCC | HLSC | 2.1 |
| 3.2 | В3 | Relocate the existing beach shower (south of the HLSC building) and install a new shower to the beach side of the sea wall. Replace the existing shower with an accessible drinking fountain with dog bowl. | 1 | Item | | \$20,000 | High | BCC | BCC | 3.3 |
| 3.3 | B4 | Expand beach day equipment storage on the beach side of the sea wall path to reduce congestion and improve safety in front of the HLSC. Utilise durable fibre reinforced mesh backfilled with sand. | 1 | Item | | \$40,000 | High | DELWP | HLSC | 3.2 |
| 3.4 | B5 | Install an additional beach shower on the beach side of the sea wall oppoiste the existing public toilet block/change room including additional opening in the sea wall for improved beach access from the stairs. | 1 | Item | | \$15,000 | High | DELWP | BCC | 3.3 |
| 3.5 | B1 | Close and revegetate unsealed secondary path access behind the HLSC | 1 | Item | | \$2,000 | Low | BCC | BCC | 3.6 |
| 3.6 | B2 | Investigate extension of the HLSC building to accommodate additional storage and facilities. Utilise the exsting asphalt path behind the building to minimise impacts on views from Beach road and the foreshore - subject to detailed design and funding. | 1 | Item | | N/C | Low | DELWP | LSV/HLSC | |
| | | SUBTOTAL HAMPTON LIFE SAVING CLUB (HLSC) | | | | \$92.000 | | | | |



| Item No | Dwg ref. | Action Description | Amount | Item | Rate | Cost | Priority | Agency responsible for approval | Agency responsible for funding | Related Works |
|---------|-------------|---|--------|-------|-------|-----------|----------|---------------------------------|--------------------------------|------------------|
| FERDINA | NDO G | ARDENS | | | | | | | | |
| 4.1 | C6 | Install new all ability hand rail to both sides of existing beach access ramp and lookout at Ferdinando Gardens. | 240 | lin.m | \$250 | \$60,000 | High | ВСС | BCC | 2.1 |
| 4.2 | C7 | Resurface the unsealed informal link from the coast walking path to Small Street to define the edge of the existing garden bed and reduce impacts on the lawn areas. | 30 | Lin.m | \$120 | \$3,600 | High | BCC | BCC | |
| 4.3 | C8 | Seal the existing 1.5m wide path from Small Street pedestrian crossing to the Ferdinando Gardens beach access ramp in sand coloured concrete on the existing alignment to improve all ability access to the sea wall path and beach. | 40 | lin.m | \$150 | \$6,000 | High | BCC | BCC | 4.1 |
| 4.4 | С9 | Permanently close the brick former gardeners shed on Beach Road at Ferdinando Gardens, reset edging to enable future widening of the Bay Trail to 3.0m and reduce height of adjoining vegetation in accordance with recommendations of the conservation management plan to maintain clear sightlines. | 1 | Item | | \$15,000 | Med | BCC | BCC | |
| 4.5 | C3 | Upgrade the existing Octopuses Garden Playspace providing a new water play splash pad, improved beach access and shade shelter with integrated seating and picnic tables. Works to include: | | | | | | | | |
| 4.5.1 | | Survey and detailed design investigation. | 1 | Item | | \$50,000 | Med | BCC | BCC | |
| 4.5.2 | C2 | Reconstruct the existing concrete sea wall path and install stainless steel handrail opposite the existing play space - subject to detailed design | 1 | Item | | \$100,000 | Med | DELWP | BCC | 4.5 |
| 4.5.3 | C3 | Remove existing rubber surface play area and replace with a water play - splash pad based upon the same theme including sea water supplied pump system - subject to detailed design | 1 | Item | | \$500,000 | Low | BCC | BCC | 4.5 |
| 4.5.4 | C4 | Establish new shade shelter and picnic area on wider section of sea wall north of the proposed water play-splash pad area. | 1 | Item | | \$150,000 | Low | DELWP | BCC | 4.5 |
| 4.5.5 | C5 | Upgrade and replace the playground mural on the existing high retaining wall to match the theme of the new water play - plash pad area | 1 | Item | | \$50,000 | Low | BCC | BCC | 4.5 |
| 4.6 | C13 | Protect existing trees and reduce impact on lawns within Ferdinando Gardens. Continue ongoing maintenance and infill planting of existing formal garden beds using local indigenous coastal species. | 1 | Item | | \$20,000 | Ongoing | BCC | BCC | 4.6 |
| | | SUBTOTAL FERDINANDO GARDENS | | | | \$954,600 | | | | |



| Item No | Dwg ref. | Action Description | Amount | Item | Rate | Cost | Priority | Agency responsible for approval | Agency responsible for funding | Related Works |
|---------|-------------|--|--------|-------|-------|-----------|----------|---------------------------------|--------------------------------|---------------------|
| LINACRE | ROAD | TO FERDINANDO GARDENS | | | | | | | | |
| 5.1 | D1 | Extend rock revetment to stabilise the existing bank and maintain high tide pedestrian access from the south end of the existing sea wall path to the Linacre Road stairs and Sandringham dog beach. | 1 | Item | | \$250,000 | High | DELWP | DELWP | 4.4, 5.2 and 5.3 |
| 5.2 | D2 | Extend a new concrete path behind the proposed rock revetment to provide high tide access through to the existing Linacre Road stairs and Sandringham dog beach. Contine to monitor bank stability | 100 | lin.m | \$350 | \$35,000 | High | DELWP | BCC | 4.4, 5.1 & 5.3 |
| 5.3 | D3 | Reset the stairs at the southern end of the existing sea wall path as a concrete ramp to provide an all ability access onto the new section of path. | 1 | Item | | \$25,000 | High | DELWP | BCC | 4.4, 5.1 & 5.2 |
| 5.4 | D4 | Install low key directional and 'code of conduct' signage at key entry points and intersections on the coast walking path to emphasis the path is for walkers not cyclists or high performance training athletes operating at high speeds. | 2 | No. | \$500 | \$1,000 | High | BCC | BCC | |
| 5.5 | D5 | Install new all ability hand rail to both sides of the existing Linacre Road beach access ramp and stairs | 120 | lin.m | \$250 | \$30,000 | Medium | BCC | BCC | 5.2 |
| 5.6 | D6 | Replace existing coastal cliff fencing on the coast trail between Linacre Road and Ferdinando Gardens - installing anchor points to improve safety for weed control and revegetation on the cliff. | 200 | lin.m | \$200 | \$40,000 | Medium | BCC | BCC | 5.12 |
| 5.7 | D7 | Replace the log stairs on the Coast Walking Path between Linacre Road and Ferdinando Gardens using a sand filled fibre reinforced plastic mesh ramp to improve all ability access. | 1 | Item | | \$15,000 | Medium | BCC | BCC | 5.5 |
| 5.8 | D8 | Refurbish the existing stone lookout and seating area at the end of Linacre Road and provide a drinking fountain with dog bowl near the walking path. | 1 | Item | | \$20,000 | Low | BCC | BCC | 5.1 |
| 5.9 | D9 | Short term retain existing temporary timber timber stairs. Following installation of the new path link to the Linacre Road concrete stairs remove the duplicated stairs and revegetate to assist stabilisation of the embankment. | 1 | Item | | \$15,000 | Low | BCC | BCC | 4.4, 5.1 & 5.2 |
| 5.10 | D10 | New drinking fountain and dog bowl at the top of the Linacre Road stairs | 1 | Item | | \$6,000 | Low | BCC | BCC | 5.8 |
| 5.11 | | Continue foreshore weed eradication works and revegetate with appropriate low ground cover species in accordance with nominated EVC. | 1 | Item | | \$20,000 | Low | BCC | BCC | |
| 5.12 | D11 | Monitor existing bank stability north of the Linacre Road stairs | 1 | Item | | \$500 | Ongoing | BCC | BCC | 4.4 and 5.6 |
| | | LINACRE ROAD TO FERDINANDO GARDENS | | | | \$457,500 | | | | |



| Item No | Dwg ref. | Action Description | Amount | Item | Rate | Cost | Priority | Agency responsible for approval | Agency responsible for funding | Related Works |
|---------|-------------|---|--------|------|----------|-------------|----------|---------------------------------|--------------------------------|------------------|
| OTHER \ | THER WORKS | | | | | | | | | |
| 6.1 | | Undertake due diligence Cultural Heritage Assessment | 1 | Item | | \$50,000 | High | OAAV | BCC | |
| 6.2 | | Establish indented parrallel parking spaces to Beach Road nature strips on the residential property side between New Street and Small Street. | 37 | No. | \$10,000 | \$370,000 | Low | VicRoads | VicRoads | |
| | | SUBTOTAL OTHER WORKS | | | | \$420,000 | | | | |
| | | TOTAL BRIGHTON BEACH - FERDINANDO GARDENS MASTER PLAN | | | | \$3,987,100 | | | | |
| | | Contingencies (20%) | | | | \$797,420 | _ | | | |
| | | | | | | \$4,784,520 | - | | | |



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