

NORTH ROAD FORESHORE MASTER PLAN

MASTER PLAN WORKS SUMMARY	PRIORITIES				TOTAL BCC	TOTAL OTHERS
	STUDY AREA	HIGH	MEDIUM	LOW		
STAGE 1: NORTH ROAD TO MARTIN STREET	\$269,000	\$15,400	\$0	\$0	\$68,400	\$216,000
STAGE 2: MARTIN STREET TO COLE STREET	\$356,000	\$22,200	\$50,000	\$0	\$140,200	\$288,000
STAGE 3: NORTH ROAD	\$0	\$476,100	\$0	\$0	\$276,100	\$200,000
STAGE 4: NORTH ROAD TO BOAT RAMP	\$26,000	\$0	\$143,000	\$0	\$29,000	\$140,000
STAGE 5: BOAT RAMP TO DUDLEY STREET	\$10,000	\$0	\$622,800	\$0	\$70,800	\$562,000
NORTH POINT CAFÉ	\$22,000	\$80,000	\$0	\$0	\$102,000	\$0
NORTH ROAD FORESHORE B1 CAR PARK	\$10,500	\$52,500	\$309,500	\$0	\$372,500	\$0
BRIGHTON BATHS TO SANDOWN STREET PATH WORKS	\$5,000	\$6,000	\$0	\$0	\$11,000	\$0
VEGETATION MANAGEMENT	\$14,500	\$0	\$25,000	\$10,000	\$49,500	\$0
LIGHTING	\$0	\$0	\$1,791,112	\$0	\$1,791,112	\$0
SUBTOTAL NORTH ROAD FORESHORE WORKS	\$713,000	\$652,200	\$2,941,412	\$10,000	\$2,910,612	\$1,406,000
CONTINGENCIES (20%)					\$582,122	\$281,200
TOTAL NORTH ROAD FORESHORE MASTER PLAN - CAPITAL IMPLEMENTATION WORKS					\$3,492,734	\$1,687,200

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IMPLEMENTATION SCHEDULE V3 Prepared by TBLD P/L for Bayside City Council. Note preliminary cost estimates are for planning purposes only and subject to survey and detailed design.

Item No	Dwg ref.	Action Description	Amount	Item	Rate	BCC Cost	Cost Other	Priority	Agency responsible for approval	Agency responsible for funding	Related Works
SEA WALL AND PATH											
1.1		Stage 1: North Road to Martin Street									
1.1.1	A18	Supply and install type 2 sea wall precast concrete coloured block capped sea wall incl base preparation, concrete footing and rock infill to match existing	180	lin. m	\$1,200		\$216,000	High	DELWP	DELWP	1.1
1.1.2	A18	New path drainage pits and outfall pipes 40m c/c	4	No.	\$2,000	\$8,000		High	BCC	BCC	1.1
1.1.3	A18	Remove and replace 2.5m wide concrete foreshore promenade path.	180	lin. m	\$250	\$45,000		High	BCC	BCC	1.1
1.1.4		Repair/Replace pit lid and outfall rockwork to existing local stormwater drain outfall		Item		\$5,000		Medium	BCC	BCC	1.1
1.1.5		Supply and install new bench seat with back	2	No.	\$2,500	\$5,000		Medium	BCC	BCC	1.1
1.1.6		Infill revegetation using local indigenous tube stock to inland side of new path at completion of works (approx 1.0m wide)	180	lin. m	\$30	\$5,400		Medium	BCC	BCC	1.1
Subtotal North Road to Martin Street						\$68,400	\$216,000				
1.2		Stage 2: Martin Street to Cole Street									
1.2.1	A18	Supply and install type 2 sea wall precast concrete coloured block capped sea wall incl base preparation, concrete footing and rock infill to match existing	240	lin. m	\$1,200		\$288,000	High	DELWP	DELWP	1.2
1.2.2	A18	New path drainage pits and outfall pipes 40m c/c	4	No.	\$2,000	\$8,000		High	BCC	BCC	1.2
1.2.3	A18	Remove and replace 2.5m wide concrete foreshore promenade path.	240	lin. m	\$250	\$60,000		High	BCC	BCC	1.2
1.2.4		Repair/Replace pit lid and outfall rockwork to existing stormwater drain outfall at Martin Street and extend concrete apron over to match new path		Item		\$10,000		Medium	BCC	BCC	1.2
1.2.5		Review function of existing GPT at upgrade/replace		Item		\$50,000		Low	BCC	BCC	2.2
1.2.6		Supply and install new bench seat with back	2	No.	\$2,500	\$5,000		Medium	BCC	BCC	1.2
1.2.7		Infill revegetation using local indigenous tube stock to inland side of new path at completion of works (approx 1.0m wide)	240	lin. m	\$30	\$7,200		Medium	BCC	BCC	1.2
Subtotal Martin Street to Cole Street						\$140,200	\$288,000				
1.3		Stage 3: North Road									
1.3.1	A17	Supply and install type 3 sea wall stepped concrete bay access terrace including base preparation and footing.		Item		\$200,000	\$200,000	Medium	DELWP	BCC/ DELWP	1.3
1.3.2	A17	New Grade 316 Stainless Steel handrail (3No.) to AS1428	24	lin. m	\$400	\$9,600		Medium	BCC	BCC	1.3
1.3.3	A17	New 3.0m wide coloured concrete Bay Trail section incl line marking	50	lin. m	\$250	\$12,500		Medium	BCC	BCC	1.3
1.3.4	A18	New reinforced coloured concrete infill between North Road and new blockwork terrace to prevent erosion when overtopped by wave action and overland stormwater flow.	500	m2	\$100	\$50,000		Medium	BCC	BCC	1.3
1.3.5	A7	New directional and risk warning signage	2	No.	\$500	\$1,000		Medium	BCC	BCC	1.3
1.3.6	A19	New colour concrete pavement between Terrace and Bay Trail section	25	m2	\$120	\$3,000		Medium	BCC	BCC	2.3
Subtotal North Road						\$276,100	\$200,000				
1.4		Stage 4: North Road to Boat Ramp									
1.4.1		Supply and install type 1 extend existing rockwork	100	lin. m	\$1,400		\$140,000	Low	DELWP	DELWP	1.4
1.4.2		New path drainage outfall points through rockwork	3	No.	\$2,000	\$6,000		High	BCC	BCC	1.4
1.4.3		Remove and replace 2.5m wide concrete foreshore promenade path.	100	lin. m	\$200	\$20,000		High	BCC	BCC	1.4
1.4.4		Infill revegetation using local indigenous tube stock to coastal side of new path (approx 1.0m wide) following rock sea wall improvement works.	100	lin. m	\$30	\$3,000		Low	BCC	BCC	1.4
Subtotal North Road to Boat Ramp						\$29,000	\$140,000				

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1.5		Stage 5: Boat Ramp to Dudley Street									
1.5.1	A14	Supply and install type 1 sea wall extend existing rock sea wall behind existing vegetation	380	lin. m	\$1,400		\$532,000	Low	DELWP	DELWP	1.5
1.5.2		Repair/Replace path and fencing at Melbourne Water outfall drain		Item			\$10,000	High	MELB WATER	MELB WATER	1.5
1.5.3		New path drainage at Dudley Street and retro-fit to existing bluestone sea wall to alleviate local flooding issues		Item		\$10,000		Low	BCC	BCC	1.5
1.5.4		Establish new overland stormwater flow relief points through extended sea wall rockwork to alienate potential flooding in the reserve.		Item			\$20,000	Low	MELB WATER	DELWP	1.5
1.5.5		Replace existing fencing to protect vegetation along path	380	lin. m	\$100	\$38,000		Low	BCC	BCC	1.5
1.5.6	A14	Infill revegetation using local indigenous tube stock to coastal side of new path (approx 2.0m wide) after completion of new rockwork	380	lin. m	\$60	\$22,800		Low	BCC	BCC	1.5
Subtotal Boat Ramp to Dudley Street						\$70,800	\$562,000				
SUBTOTAL NEW SEA WALL AND PATH						\$584,500	\$1,406,000				
NORTH POINT CAFÉ											
2.1	A1	Provide additional bicycle parking facilities at the café / toilet facility		Item		\$2,000		High	BCC	BCC	2.2
2.2	A2	Investigate redevelopment of the café and public toilet facility in accordance with the Victorian Coastal Strategy and Design Guidelines as part of new lease agreement.		Item			N/C	High	BCC/DELWP	LEASEE	2.2 , 2.3
2.3	A3	Reduce vehicle speed and remove B1 carpark access road central median to increase footpath width and improve pedestrian safety and amenity adjacent to the café and public toilets. Upgrade the existing crossing to pedestrian priority.		Item		\$80,000		Medium	BCC	BCC	2.2
2.4	Pg10	Establish a low solid wall at the edge of North Road to improve flooding at the North Point Café if future redevelopment of the building is delayed.		Item		N/C		Medium	BCC	BCC	2.2
2.5	A2	Improve definition of the café lease area boundary to reduce encroachment of service areas into the reserve.		Item		N/C		High	BCC	BCC	2.2
2.6	A21	Establish 2 new accessible parking bay and a short term drop off/pick up bay on North Road at North Point Café		Item		\$20,000		High	BCC	BCC	2.2
Subtotal North Point Café						\$102,000	\$0				
NORTH ROAD FORESHORE B1 CAR PARK											
3.1	A5	Trim existing Boobialla to improve sightlines on entry for car park.		Item		\$500		High	BCC	BCC	3.2
3.2	A6	Upgrade existing accessible parking adjacent to the café with line marking and bollard.		Item		\$1,000		High	BCC	BCC	3.1
3.3	A7	Install advance warning signage for cyclist approaching the boat ramp crossing point.	2	No.	\$500	\$1,000		High	BCC	BCC	
3.4	A8	Short term re line mark and sign to retain only central area for boat trailer parking (23 Spaces)		Item		\$5,000		High	BCC	BCC	3.5
3.5	A8	Longer term reset the car park to simplify entry/exit arrangement. Provide additional standard car parking adjacent to the playground and café. Retain 25 long vehicle/boat trailer parking spaces and all existing trees.		Item		\$250,000		Low	BCC	BCC	3.6
3.6	A9	Establish additional shade trees and integrated WSUD systems to treat stormwater runoff prior to discharge to the bay.		Item		\$50,000		Low	BCC	BCC	3.5
3.7	A16	Install new picnic shelter with two tables adjoining the playground		Item		\$50,000		Medium	DELWP	BCC	
3.8	A10	Formalise and revegetate the high flow stormwater overland flow path from Chatsworth Avenue to the boat ramp with low indigenous sedges/rushes.	150	m2	\$30	\$4,500		Low	BCC	BCC	3.9
3.9	A10	Establish a designated pedestrian and maintenance crossing point between the car park and open grass areas across the overland flow path from Chatsworth Avenue		Item		\$5,000		Low	BCC	BCC	3.8
3.10	A4	Trial increasing spaces for car parking by reducing boat trailer only parking mid week to accommodate high levels of use of the playground and café. Signage and line marking only.		Item		\$3,000		High	BCC	BCC	
3.11		Install interpretive signage to improve community understanding appreciation of the difference between Rakali and Black Rats and other vermin.		Item		\$2,500		Medium	BCC	BCC	5.8
Subtotal North Road Foreshore B1 Car Park						\$372,500	\$0				

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BRIGHTON BATHS TO SANDOWN STREET PATH WORKS AND DOG BEACH											
4.1	B2	Establish new stormwater overland flow path outlet through the raised sea wall rockwork at Sandown Street.		Item		\$5,000		High	BCC	BCC	
4.2	B6	Retain through access for Royal Brighton Yacht Club boat launching vehicles/ trailers to access onto the pier and install warning signage		Item		N/C		High	BCC	BCC	
4.3		Establishment of two new bench seats with concrete base within the Sandown Street Dog beach area.	2	No.	\$3,000	\$6,000		Medium	BCC	BCC	
SUBTOTAL BRIGHTON BATHS TO SANDOWN STREET PATH WORKS AND DOG BEACH						\$11,000	\$0				
VEGETATION MANAGEMENT											
5.1	A11	Retain open mown grass areas and confine coastal new revegetation to existing garden bed areas.		Item		\$5,000		Ongoing	BCC	BCC	
5.2	A12	Retain the existing mix of garden beds and open grass areas. Protect existing trees and replace only as needed within existing garden bed areas using similar indigenous species.		Item		\$5,000		Ongoing	BCC	BCC	
5.3	B1	Reinstate low indigenous planting on the adjoining new sea wall rockwork at the end of Sandown Street.	250	m2	\$30	\$7,500		High	BCC	BCC	
5.4		Liaise with adjoining residents to ensure maintenance of garden beds directly adjoining the property boundary is consistent with the Vegetation Protection Overlay and Council's Nature strip Planting Policy. Planted weed species are to be removed and replaced with local indigenous species sourced from the Bayside Community Nursery.		Item		\$5,000		Low	BCC	BCC	
5.5		Revegetate difficult to mow stormwater detention areas with low indigenous sedges/rushes to improve habitat values.		Item		\$20,000		Low	BCC	BCC	
5.6		Review alternative path and public lighting options to extend area available for Coastal Tea-Tree regeneration and to improve habitat values.		Item		\$5,000		High	BCC	BCC	
5.7		Monitor the impacts of increasing dog use on areas of Strand sedge, including trampling and disturbance and install additional fencing where required at Sandown Spit.		Item		N/C		High	DELWP/BCC	BCC	6.9
5.8		Install signage highlighting biodiversity values of the indigenous vegetation on Sandown Spit.	2	No.	\$1,000	\$2,000		High	BCC	BCC	3.1
SUBTOTAL VEGETATION MANAGEMENT						\$49,500	\$0				
LIGHTING											
6.1		Head Street to North Road		Item		\$224,017		Low	BCC	BCC	
6.2		North Road Playground		Item		\$145,308		Low	BCC	BCC	
6.3		North Road Carpark		Item		\$90,504		Low	BCC	BCC	
6.4		North Road to Miller Street		Item		\$179,868		Low	BCC	BCC	
6.5		Miller Street to Sandown Street		Item		\$163,210		Low	BCC	BCC	
6.6		Sandown Street to Royal Brighton Yacht Club		Item		\$314,265		Low	BCC	BCC	
6.7		Middle Brighton Baths		Item		\$140,606		Low	BCC	BCC	
6.8		Associated Switchboards, Controls & Metering		Item		\$70,000		Low	BCC	BCC	
6.9		Miscellaneous works including preliminaries, Traffic Management, Services Locations, Submittals and Asbuilt records etc.		Item		\$50,000		Low	BCC	BCC	
6.10		Design Contingency- 15%		Item		\$206,667		Low	BCC	BCC	
6.11		Project Mangement & Fees - 15%		Item		\$206,667		Low	BCC	BCC	
SUBTOTAL LIGHTING						\$1,791,112	\$0				
SUBTOTAL NORTH ROAD FORESHORE MASTER PLAN WORKS						\$2,910,612	\$1,406,000				
Contingencies (20%)						\$582,122	\$281,200				
TOTAL NORTH ROAD FORESHORE MASTER PLAN - CAPITAL IMPLEMENTATION WORKS						\$3,492,734	\$1,687,200				

*NOTE: Cost associated with the Bay Trail duplication and North Point Kiosk Redevelopment Works are not included.