

Appendix 6 - Preliminary Cost Estimate

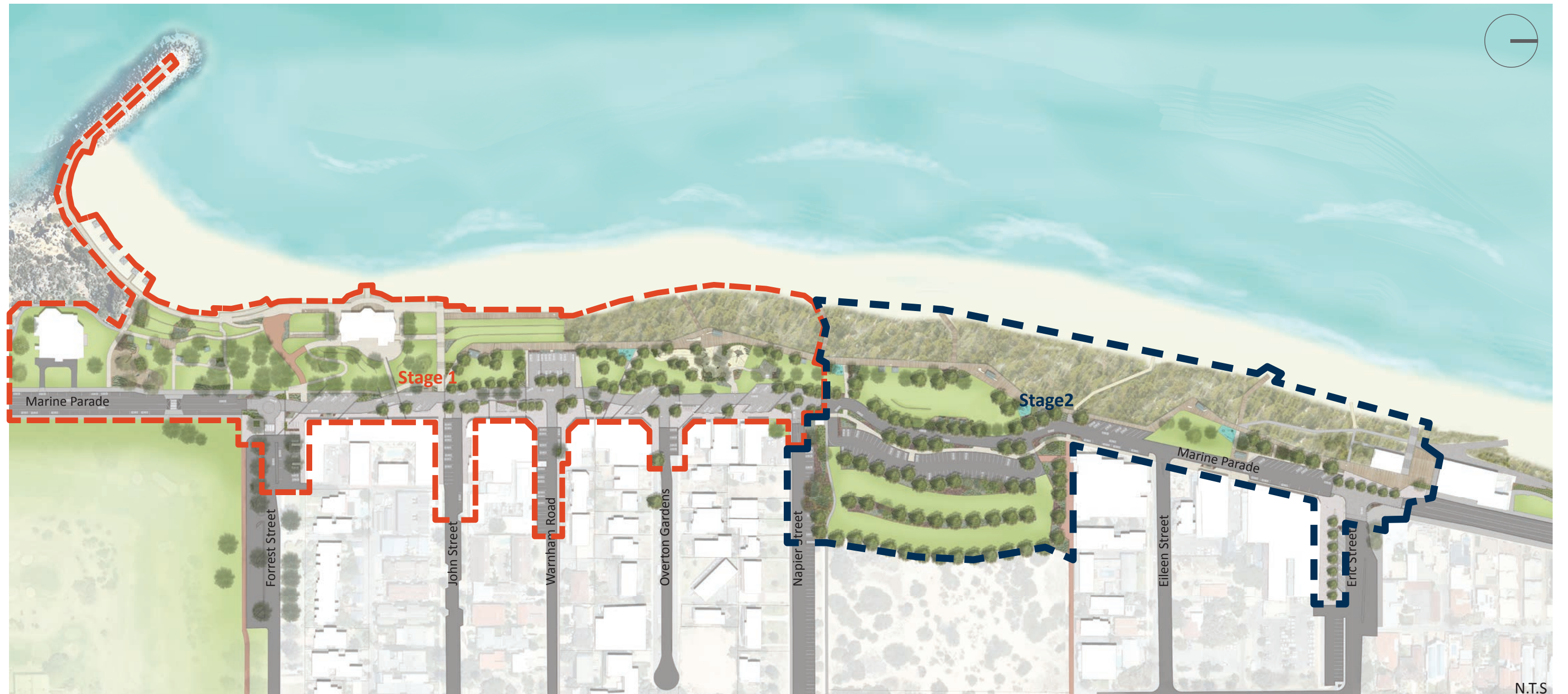
STAGE 1 - FORREST TO NAPIER STREET					
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1.00	Preliminaries				
1.01	Site establishment, insurances, set out, etc.	item		15%	\$1,461,893
2.00	Demolition				
2.01	Remove existing kerb	m	3,237	\$2	\$6,474
2.02	Remove existing road pavement	m²	14,046	\$5	\$70,230
2.03	Remove existing footpath	m²	9,895	\$5	\$49,475
2.04	Remove all existing furniture, fences, signage etc	PS	1	\$50,000	\$50,000
2.05	Store topsoil and respread	m²	16,548	\$2	\$33,096
3.00	Earthworks				
3.01	Bulk earthworks	PS	1	\$100,000	\$100,000
3.02	Detailed earthworks	m²	27,711	\$10	\$277,110
4.00	Pavements				
4.01	Segmental paving + 200mm crushed rock base course	m²	4,559	\$250	\$1,139,750
4.02	Segmental paving + 100mm crushed rock base course	m²	3,672	\$220	\$807,840
4.03	Asphalt seal (black) + 100mm crushed rock base course	m²	5,205	\$65	\$338,325
4.04	Asphalt seal (red) + 100mm crushed rock base course	m²	418	\$70	\$29,260
4.05	Concrete paving - exposed aggregate finish	m²	4,752	\$110	\$522,720
4.06	Concrete paving - broomed finish	m²	1,638	\$80	\$131,040
4.07	Semi-mountable kerb	m	1,170	\$32	\$37,440
4.08	Flush kerb	m	1,233	\$29	\$35,757
4.09	Parking bay linemarking	PS	1	\$5,000	\$5,000
5.00	Drainage				
5.01	Strip drain - trafficable	m	380	\$800	\$304,000
5.02	Pit & pipe network	PS	1	\$75,000	\$75,000
6.00	Decking				
6.01	Boardwalk / deck	m	2,102	\$800	\$1,681,600
7.00	Walls & steps				
7.01	Limestone retaining wall - 400mm high	m	1,137	\$250	\$284,250
7.02	Point and repair existing retaining walls	PS	1	\$50,000	\$50,000
7.03	Concrete steps	m	511	\$350	\$178,850
8.00	Furniture				
8.01	Handrails	m²	247	\$900	\$222,300
8.02	Bollards	item	40	\$760	\$30,400
8.03	Barbecues	m²	3	\$14,000	\$42,000
8.04	Bench seats - proprietary	m²	9	\$3,500	\$31,500
8.05	Bench seats - custom	m²	3	\$10,000	\$30,000
8.06	Picnic tables	m²	12	\$5,000	\$60,000
8.07	Litter bins	m²	12	\$2,500	\$30,000
8.08	Bicycle racks	m²	30	\$800	\$24,000
8.09	Shade Structures to boardwalk & parklands	item	15	\$25,000	\$375,000
8.10	Shade Structures to beach	item	6	\$18,000	\$108,000
8.11	Drink fountains (inc plumbing)	m²	5	\$8,000	\$40,000
8.12	Beach showers (inc plumbing)	m²	6	\$8,000	\$48,000
9.00	Lighting & Electrical				
9.01	Pole top street lights	item	10	\$10,000	\$100,000
9.02	Pole top POS lights	item	40	\$15,000	\$600,000
9.03	Feature uplighting	item	50	\$2,000	\$100,000
9.04	Electrical connections	PS	1	\$300,000	\$300,000
10.00	Playground & Fitness Stations				
10.01	Sand softfall	m²	950	\$30	\$28,500
10.02	Rubber softfall	m²	65	\$210	\$13,650
10.03	Mulch softfall	m²	520	\$24	\$12,480
10.04	Shade sails	item	1	\$60,000	\$60,000
10.05	Playground equipment	m²	1	\$500,000	\$500,000
10.06	Fitness equipment	m²	8	\$2,000	\$16,000
11.00	Softworks				
11.01	100 Litre trees	ea	75	\$350	\$26,250
11.02	Roll-on turf	m²	13,365	\$10	\$133,650
11.03	Topsoil to all turfed areas	m²	13,365	\$3	\$40,095
11.04	Mass planting (4 x 130mm pots per sqm)	m²	3,183	\$34	\$108,222
11.05	Topsoil to all planted areas	m²	3,183	\$5	\$15,915
11.06	Organic mulch to all planted areas	m²	3,183	\$9	\$28,647
12.00	Irrigation				
12.01	Irrigation to planted areas	m²	13,365	\$15	\$200,475
12.02	Irrigation to turf areas	m²	13,365	\$10	\$133,650
12.03	Water source	PS	1	\$80,000	\$80,000
13.00	Other				
13.01	Public art & interpretive elements	PS	1	\$500,000	\$500,000
13.02	New public amenities building	PS	0	\$400,000	\$0
14.00	Contingencies				
14.01	Contingencies	PS		25%	\$2,801,961
Subtotal (exc GST)					\$14,509,805

STAGE 2 - NAPIER TO ERIC STREET					
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1.00	Preliminaries				
1.01	Site establishment, insurances, set out, etc.	item		15.00%	\$1,461,893
2.00	Demolition				
2.01	Remove existing kerb	m	3,633	\$2	\$7,266
2.02	Remove existing road pavement	m²	18,146	\$5	\$90,730
2.03	Remove existing footpath	m²	4,026	\$5	\$20,130
2.04	Remove all existing furniture, fences, signage etc	PS	1	\$50,000	\$50,000
2.05	Store topsoil and respread	m²	15,110	\$2	\$30,220
3.00	Earthworks				
3.01	Bulk earthworks	PS	1	\$100,000	\$100,000
3.02	Detailed earthworks	m²	31,079	\$10	\$310,790
4.00	Pavements				
4.01	Segmental paving + 200mm crushed rock base course	m²	752	\$250	\$188,000
4.02	Segmental paving + 100mm crushed rock base course	m²	1,314	\$220	\$289,080
4.03	Asphalt seal (black) + 100mm crushed rock base course	m²	8,881	\$65	\$577,265
4.04	Asphalt seal (red) + 100mm crushed rock base course	m²	999	\$70	\$69,930
4.05	Concrete paving - exposed aggregate finish	m²	1,335	\$110	\$146,850
4.06	Concrete paving - broomed finish	m²	1,200	\$80	\$96,000
4.07	Semi-mountable kerb	m	1,794	\$32	\$57,408
4.08	Flush kerb	m	510	\$29	\$14,790
4.09	Parking bay linemarking	PS	1	\$5,000	\$5,000
5.00	Drainage				
5.01	Strip drain - trafficable	m	50	\$800	\$40,000
5.02	Pit & pipe network	PS	1	\$75,000	\$75,000
6.00	Decking				
6.01	Boardwalk / deck	m	2,604	\$800	\$2,083,200
7.00	Walls & steps				
7.01	Limestone retaining wall - 400mm high	m	160	\$250	\$40,000
7.02	Point and repair existing retaining walls	PS	0	\$50,000	\$0
7.03	Concrete steps	m	300	\$350	\$105,000
8.00	Furniture				
8.01	Handrails	m²	407	\$900	\$366,300
8.02	Bollards	item	32	\$760	\$24,320
8.03	Barbecues	m²	2	\$14,000	\$28,000
8.04	Bench seats - proprietary	m²	10	\$3,500	\$35,000
8.05	Bench seats - custom	m²	2	\$10,000	\$20,000
8.06	Picnic tables	m²	6	\$5,000	\$30,000
8.07	Litter bins	m²	6	\$2,500	\$15,000
8.08	Bicycle racks	m²	20	\$800	\$16,000
8.09	Shade Structures to boardwalk & parklands	item	6	\$25,000	\$150,000
8.10	Shade Structures to beach	item	0	\$18,000	\$0
8.11	Drink fountains (inc plumbing)	m²	2	\$8,000	\$16,000
8.12	Beach showers (inc plumbing)	m²	5	\$8,000	\$40,000
9.00	Lighting & Electrical				
9.01	Pole top street lights	ea	4	\$10,000	\$40,000
9.02	Pole top POS lights	ea	20	\$15,000	\$300,000
9.03	Feature uplighting	ea	30	\$2,000	\$60,000
9.04	Electrical connections	PS	1	\$200,000	\$200,000
10.00	Playground & Fitness Stations				
10.01	Sand softfall	m²	0	\$30	\$0
10.02	Rubber softfall	m²	188	\$210	\$39,480
10.03	Mulch softfall	m²	0	\$24	\$0
10.04	Shade sails	item	0	\$60,000	\$0
10.05	Playground equipment	m²	0	\$500,000	\$0
10.06	Fitness equipment	m²	6	\$2,000	\$12,000
11.00	Softworks				
11.00	100 Litre trees	ea	80	\$350	\$28,000
11.02	Roll-on turf	m²	10,765	\$10	\$107,650
11.03	Topsoil to all turfed areas	m²	10,765	\$3	\$32,295
11.04	Mass planting (4 x 130mm pots per sqm)	m²	4,345	\$34	\$147,730
11.05	Topsoil to all planted areas	m²	4,345	\$5	\$21,725
11.06	Organic mulch to all planted areas	m²	4,345	\$9	\$39,105
12.00	Irrigation				
12.01	Irrigation to planted areas	m²	4,345	\$15	\$65,175
12.02	Irrigation to turf areas	m²	10,765	\$10	\$107,650
12.03	Water source	PS	0	\$80,000	\$0
13.00	Other				
13.01	Public art & interpretive elements	PS	1	\$300,000	\$300,000
13.02	New public amenities building	PS	1	\$400,000	\$400,000
14.00	Contingencies				
14.01	Contingencies	PS		25%	\$2,801,961
Subtotal (exc GST)					\$11,301,943

This preliminary cost estimate is indicative and should be reassessed once detailed design has been completed. We accept no liability or responsibility for interpretations made or use of the information for any other purpose. It should also be noted that the estimate may be affected by a number of factors outside the control of Cardno (WA) Pty Ltd and we cannot warrant the accuracy of the information provided and recommend a further review of the information contained herein be undertaken by the client prior to use.

No allowance has been made for fees and charges relating to project management, detailed design and certification fees.

No allowance has been made for service relocations or major drainage infrastructure





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