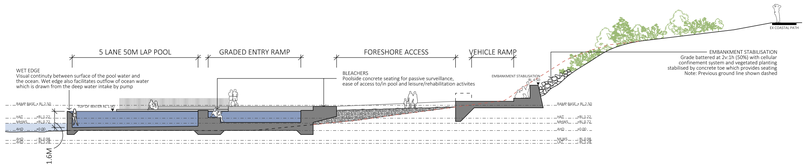
Concept Design
Summary of Options



Option 1 50m Sea-side Pool and Embankment Protection



Summary

A 50m seaside pool adjacent Heron Way Reserve including stepped concrete benches and beach access pathways that also provide embankment protection against coastal erosion. Includes a children's wading pool with a natural rock floor.

Advantages

- Public foreshore access enhanced
- 50m standard lap length preferred for consistency in endurance and fitness/health benefits (30% of sea-side pool users partake in lap swimming) and permits pool to be used for competitive events
- Storm-water outlet efficiently diverted for beach and water quality control
- Pool situated parallel to the contours of the beach
- Orientation and location allows pool to remain in use through broader range of surf conditions and protects ramped entry behind lap lane

Considerations

- Larger footprint
- Greater total project cost
- Channel to be excavated for deep water intake below rock platform
- Maintenance of 50m pool more involved, marginal increase relative to 25m pool
- Vision impaired users limited to using eastern most lap lane of pool as it is has a continuous edge. Lane is also most exposed to wave action, however it is largely protected by rock platform embankment

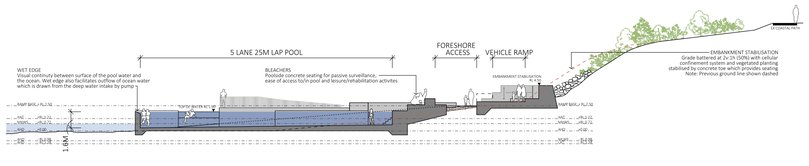
Cost

Capital : **$10.3M ex. GST**

Ongoing : **$200K pa.** (Mid range)



Option 2 25m Sea-side Pool and Embankment Protection



Summary

A 25m seaside pool adjacent Heron Way Reserve including stepped concrete benches and beach access pathways that also provide embankment protection against coastal erosion. Includes a children's wading pool with a natural rock floor.

Advantages

- Public foreshore access enhanced
- Reduced total project cost
- Smaller pool footprint
- Wet edge to end of ramp in the pool provides seating and frames views to Black Point
- Lap lane for vision impaired swimmers is protected, has good access and a continuous edge

Considerations

- Storm-water outlet indirectly diverted, at higher cost
- To permit access for maintenance vehicles, long axis of pool must be at 90 degrees to beach
- Channel to be excavated for deep water intake below rock platform
- 25m lap length less preferred by swimmers for fitness

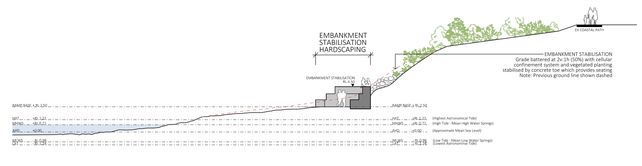
Cost

Capital : **$9M ex. GST**

Ongoing : **$180K pa.** (Mid range)



Option 3 Embankment Protection Only (No Pool)



Summary

For the purposes of this consultation, concrete structure and beach access pathways adjacent to Heron Way have been used as an example of a solution that provides protection against coastal erosion. Other coastal management responses through this section will be considered as part of the "no pool" option which may include rock armouring, reinforcement and planting.

Advantages

- Public foreshore access enhanced
- Reduced total project cost
- Reduced ongoing maintenance cost

Considerations

- Storm-water outlet unchanged, ie discharges onto the beach
- Coast more exposed to hazardous surf
- No lap or children's pool provided

Cost

Capital : **Up to $2.7M ex. GST**

Ongoing : **$55K pa.** (Mid range)