



City of
Melville

Item Number T21/3953 – Mt Henry Jetty Replacement
Presenter: Mick McCarthy, Director Technical Services

Mt Henry Jetty Replacement



Background

- The City conducted a condition audit in 2018 of jetties and boardwalks as part of the annual asset audit programme
- This identified deterioration across the portfolio and an upgrade programme was initiated
- During the upgrade works in 2021 significant further degradation was found at Mt Henry jetty





Background (cont.)

- Marine Consultant, MP Rogers, was commissioned to consider remediation options
- Two potential options were presented:
 - short term repair of existing, circa 10 year life
 - longer term renewal, 50 year life per AS4997
- Considering long term value for money and risk considerations the decision was made to replace the jetty



Community Consultation

- Community consultation focused on usage and frequency of use:
 - Scenic occasionally 44.8%
 - Boat pickups weekly 13.7%
 - Fishing daily 10.3%
 - Crabbing fortnightly 6.9%
 - Walking never 5.1%
 - Photography < 5%
 - Meditation/Relaxation monthly 1.9%



Community Consultation

- 70% local users
- 93% supported replacing the jetty with a similar design
- 87% did not support replacing with a smaller jetty

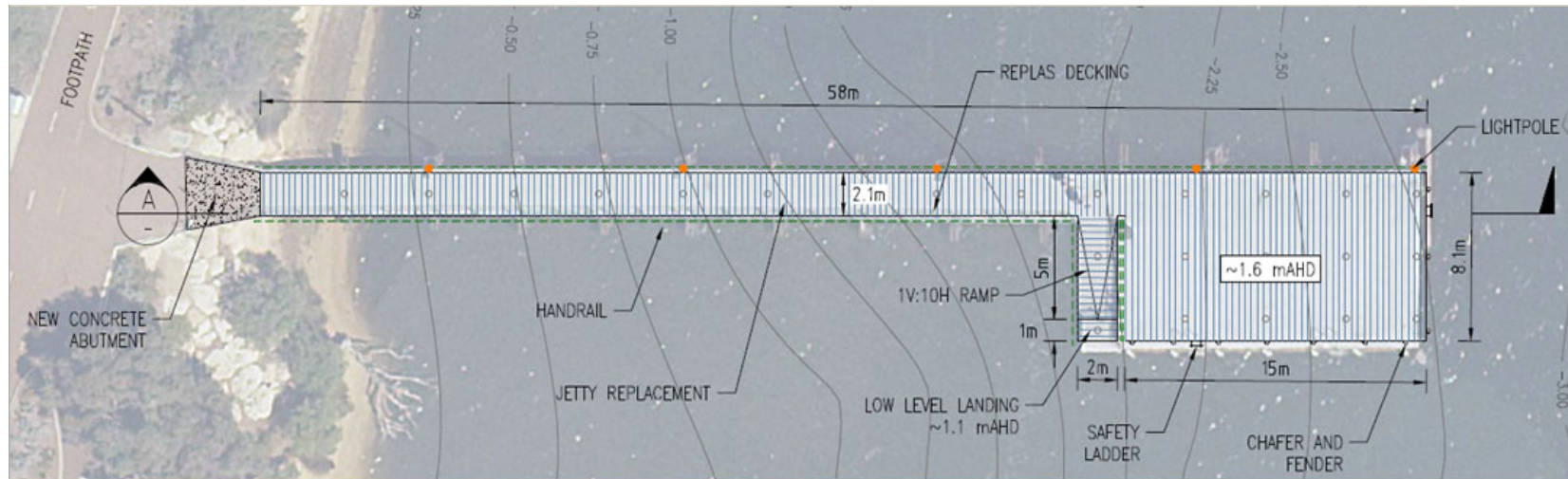


Concept Design options

- Three options were considered:
 - Like for Like
 - Smaller pedestrian jetty
 - Hybrid of the above
- All included universal access for pedestrians from the road reserve.



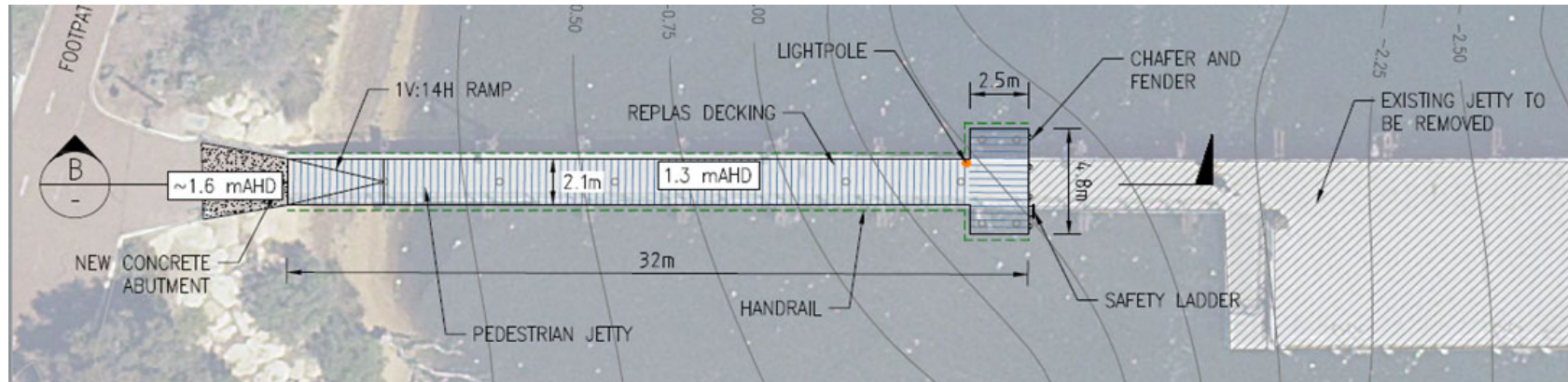
Option 1 – Like for Like



- Advantages
 - visual appearance, functionality of the existing jetty
 - berthing for vessels up to 7 m
 - Large area for access to deeper water for recreational fishing
- Disadvantages
 - Highest capital and maintenance cost
- Concept design estimate **\$1,459,000**



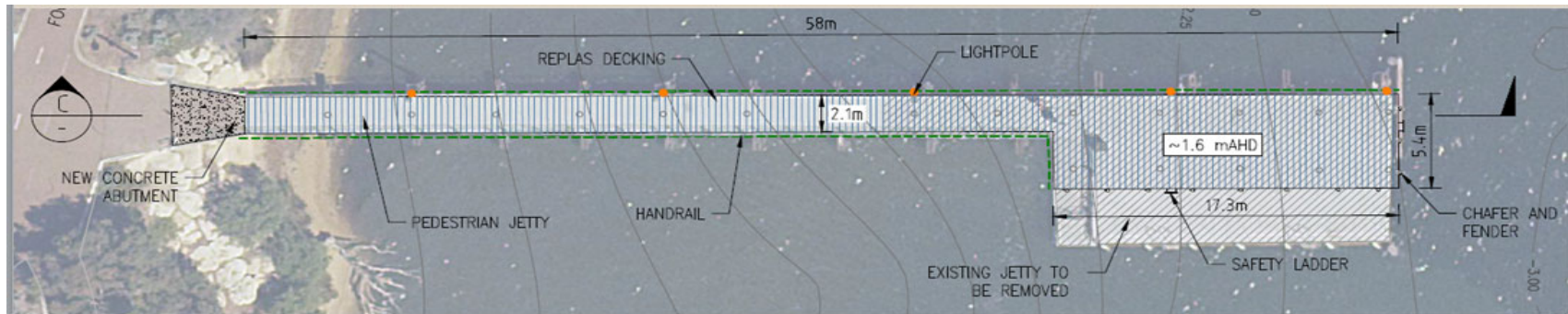
Option 2 - Smaller pedestrian jetty



- Advantages
 - Lowest capital and maintenance costs
 - Provides access to reasonable water depth
 - Smallest construction footprint
- Disadvantages
 - Temporary berthing only at the head of the jetty
 - The structure limits the depths that recreational fisherman can reach
 - Significantly reduced space for recreational fishing
- Concept design estimate **\$648,000**



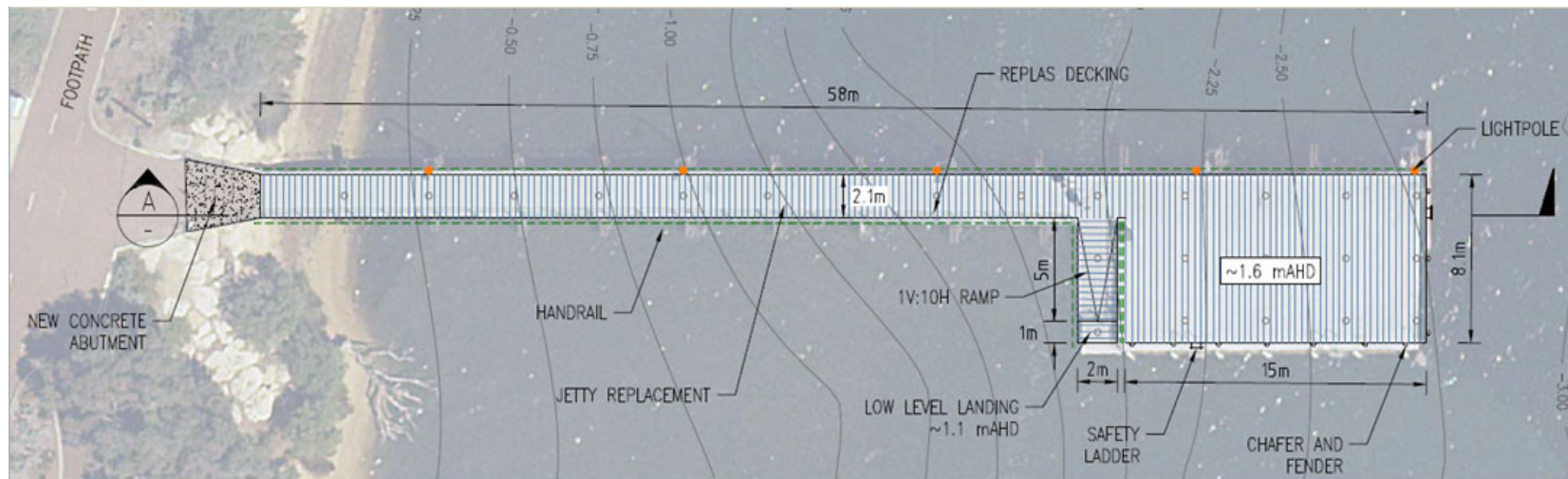
Option 3 – Hybrid Option



- Advantages
 - Provides access to deeper water
 - Provides a reasonable area at the end
- Disadvantages
 - Higher capital and maintenance costs
 - Temporary berthing only at the head of the jetty
- Concept design estimate **\$1,231,900**



Recommendation



- Option 1 – Like for Like replacement
- Concept design estimate \$1.4m
- Detailed design and project management as part of 22/23 budget