

NEW RAPID BAY JETTY

DESIGN SCOPE

Primary Criteria

The New Rapid Bay Jetty should have a minimum length of 260m in order to reach reasonably deep waters and a minimum life span of 40 years. Interested parties are to supply a total cost estimate broken down in (a) cost of required geotechnical investigations, (b) cost of final design and associated specification, and (c) cost of construction. Construction costs should be supplied for the minimum 260m length jetty and include a unit rate \$ per length of jetty to extend it past the 260m.

Project

The new jetty should provide safe access for divers, anglers and tourists to the deep waters of Rapid Bay. The safe access for divers should be right to the water and should provide sufficient deck space for anglers and visitors.

Location

The jetty is to be constructed east of the existing jetty. The location of the land end of the jetty should be no closer than 30 metres from the existing jetty. The seaward end of the jetty should be approximately 30 metres east of the existing jetty. These locations will depend on the results of the geotechnical investigations and environmental impact assessment. Benchmarks are to be provided by DTEI.

Design Considerations

The structure is to be a pedestrian jetty. No public vehicular access will be permitted, however it must cater for light maintenance and emergency vehicles.

The length of the jetty will depend on cost but the target should be to reach 300m.

The width of the majority of the jetty should be some 3.6 m. The jetty can be wider at several points along the structure above deep water to accommodate anglers. The last span should be widened to approximately 4.8 meters to accommodate anglers.

An access for divers to safely enter and leave the water is required at the north western end of the jetty – along side and not under the jetty. The access should be in the form of a stair case like structure [not a ladder] and should have two landings. The top landing at jetty deck level should be at least 1.2 m X 1.2 m. The second landing, between the deck and low tide level, should be at least 1.2 m X 3 m; it should be approx 1.5 metres above high tide.

The treads of the stairs should be larger than normal [approximately 300mm tread with 160 mm riser as per AS 1657-1992 Clause 4.3.1] to cater for divers wearing fins. The stair should extend to