

Falcon Bay Seawall Construction



Project Description

Leeuwin Civil was engaged by the City of Mandurah to Design and Construct a seawall at Falcon Bay Beach in the Shire of Mandurah.

Design works for the project were undertaken by WML Consultants with structural design analysis performed by marine and ocean experts, BMT JFA Consultants.

Works had 15%, 85% and 100% design. Construction was mobilised at 100% and completed to all time and budget constraints.

The final design included a 65m long sheet-pile-wall, some areas being 6m in depth, with 5m long return flanks. The flanks were topped with concrete ring beams – and a set of stairs, handrails and tactiles installed to provide beach access from the path.

A smaller concrete tie-beam connected the revetment mattress to the wall which was then backfilled and covered with beach sand to provide coastal wall erosion protection.

Scope of Works

- design and construction of a 65m long coastal-pile-wall/seawall;
- installation of a revetment mattress system to protect the wall from erosion and scouring; and
- installation of stairs, handrails and tactiles for beach access.

Location

Falcon Bay, City of Mandurah

Dates

May 2017 - May 2018

Client

City of Mandurah

Designer

WML Consultants

Project type

Design and Construction

Cost

\$700,000

Job Number

1948

Referee

Superintendent's Representative,
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City of Mandurah,
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