ROAM MARINE

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Project: **Lumsden Point MOF**

Client: **TAMS**

Year: **2021**

Project scope:

TAMS were contracted to design and construct a landbacked wharf for FMG at Lumsden Point, Port Hedland. The wharf is ~59m*22m with retained height of 16.5m. Main wall consists of 55No dia 1625mm piles. Anchor wall consists of 19No dia 1067 piles.

Roam Marine scope:

Roam Marine designed the piling frames for the main wall and the anchor wall including the temporary support, access, lifting etc. Work included constructability review of the clients wharf design. Roam Marine also designed the six permanent works gravity nav aids / leads for the MOF.

The main wall piles were driven with a 25m long two level gate frame that could drive 11 piles at a time so only 5 positions were required. This was supported on temporary piles. The pile rollers could swing out of the way to enable the hammer to pass.

60t piling frame supported on temporary piles

The pile fame for the anchor wall piles was a single level gate supported on the barge on the mud flat.

Driving the anchor piles off side of barge five at a time

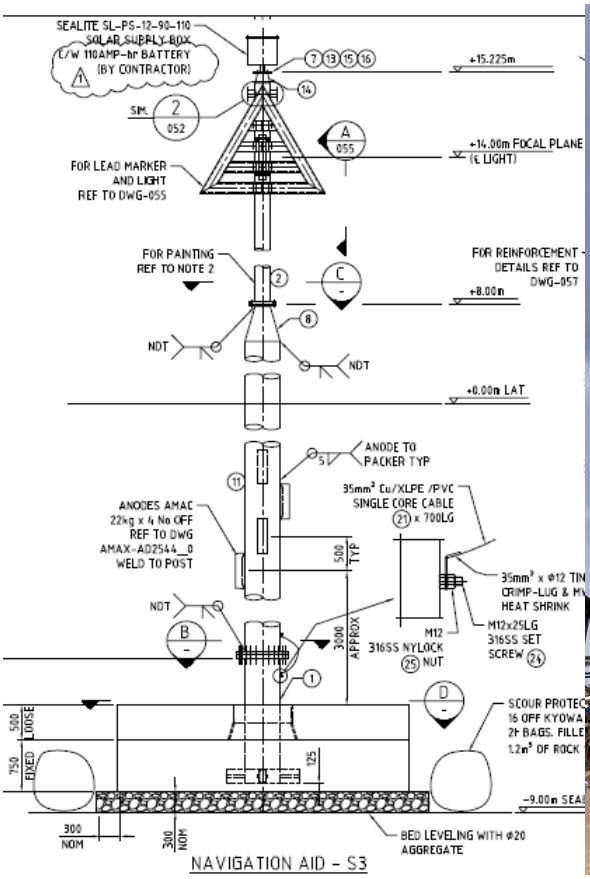
Backfilling behind the anchor wall + tie installation

Access platforms were installed on both sides of the full length of the pile wall for welding access and cube float pontoons were used on the mudflats for the anchor wall

Access decks on main wall

Cube floats on anchor wall

Roam Marine also designed six gravity base nav aids and two of these were also fitted with lead lights and shapes. Bases were precast concrete with bolt on steel central post and upper sections.



Nav Aid GA drg

Lifting the precast base units