

# Berth Deepening

## - using concrete mattress

Many existing berths are required to be deepened to accommodate larger vessels particularly with the development of ever larger container vessels. Retention of the existing quay wall and infrastructure in conjunction with berth deepening can often be a preferred solution.



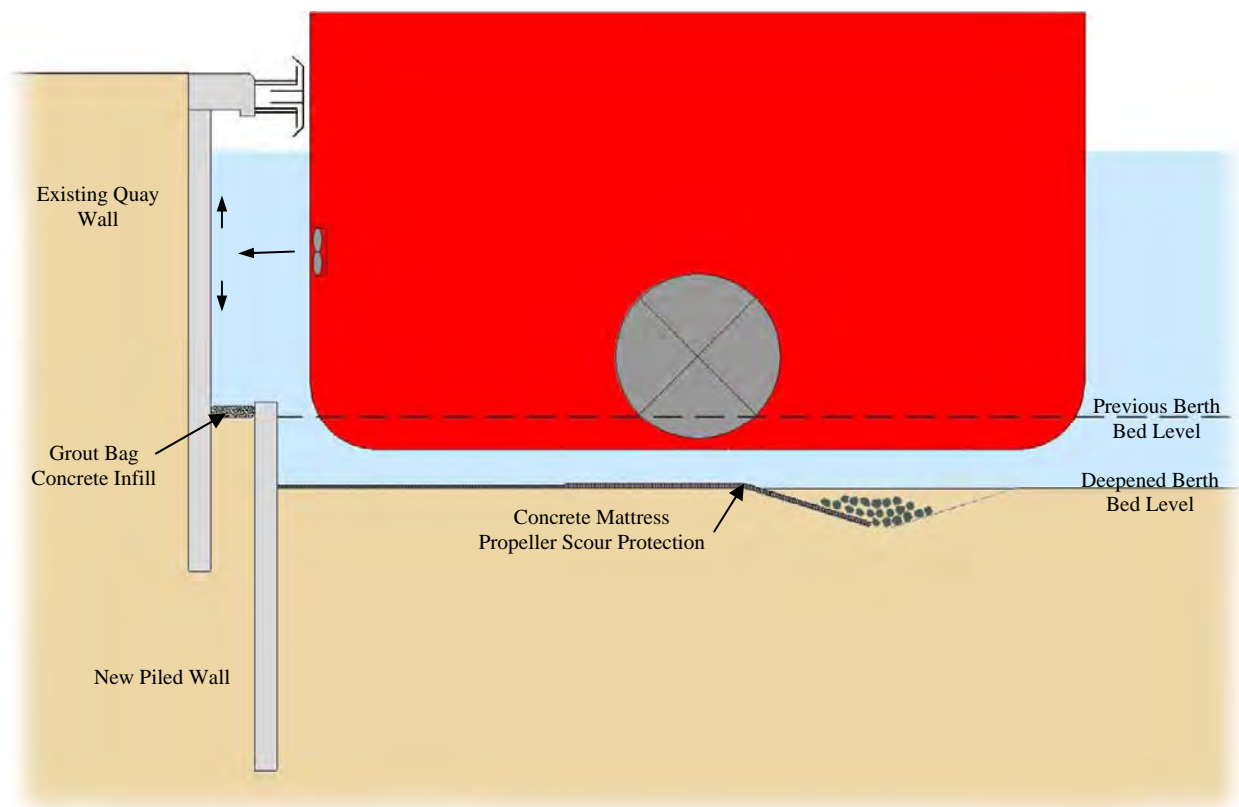
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**Fabriform**

After new piling is designed and installed to the toe of the wall, a grout bag concrete infill seal and bearing can be formed between the quay wall and toe piling. This provides a seal protection against bow thrusters down wash and a structural bearing between walls.



**Typical Berth Deepening**

The concrete mattress system provides very effective scour protection due to its low construction thickness. This saves dredging depth and importantly minimises pile span heights and embedment depths. This is particularly important for cantilever piling used for berth deepening.