



GRAND CANAL DOCK

Infrastructure Development for 28 acre dockland site

Client: Dublin Dockland Development Authority

SUMMARY:

Value: €9 million

Architect: DDDA

Status: Complete

Services Provided:

Detailed Design

Construction Supervision

Nicholas O'Dwyer developed the design and details for the infrastructure requirements for the 28 acres on the former Bord Gais site at Sir John Rogerson Quay. The scope of work included the design of the following services within the developments area: Foul and surface water systems; Water main system; Electricity and Gas Distribution systems; Telecommunications and Management ducting systems.

Our scope of works included liaison with the various departments within Dublin Corporation and other utility providers including ESB, Bord Gais, and all telecommunications providers to obtain their requirements and agreement on our proposed distribution system.

We were also responsible for the design and layout of the road network including the refurbishment of the existing roads within the development area. A unique aspect of this particular site is that the reclamation works carried out resulted in the finished surface of the site being 3m below the surrounding roads. Due to the phasing of the future developments it was necessary to construct the roads up to within 500mm of the finished surface to enable access to the site areas.

This therefore requires the main services to be in place during the backfilling operations prior to the adjoining properties commencing construction. To connect services to the surrounding road network required the breaking through the secant piled wall, which was installed to enable the excavation of the contaminated ground. We tried to minimise the number of openings through the piled wall by ensuring each utility provider utilised the same openings where at all possible



Nicholas O'Dwyer
CONSULTING ENGINEERS