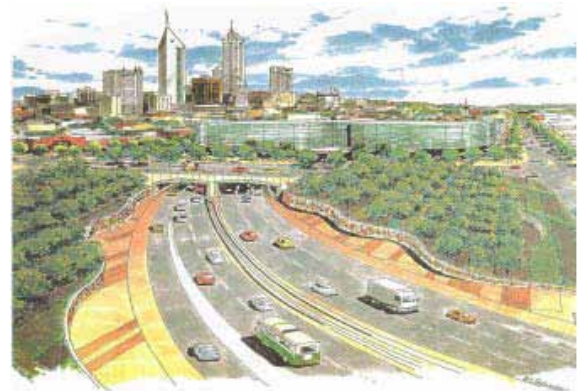


Graham Farmer Freeway

Project Report - Western Australia

This major project included the construction of a 1500m, 6 lane tunnel (3 carriageways either side) totalling 7km of freeway connecting East to West Perth. Construction of the Northbridge Tunnel commenced on the west side of the Perth city area. Holcim supplied the concrete from their East Perth plant, with Osborne Park and Welshpool as backups. Around 2,000m³ of concrete was produced daily with production starting around 3.00am most mornings.



The concrete supplied was specified predominantly as 40MPa, although high durability levels were also desired by the design team. The design life of the structure was nominated as 150 years. In order to achieve project requirements, a special concrete containing optimised binders and admixtures to manage heat and hydration was developed by specialists within Holcim.

Over 180,000m³ of concrete was delivered to the project. Not a single cubic metre was rejected. This was primarily achieved through the efforts of Holcim's on-site Project Manager. Holcim is proud of its contribution to this very exciting project, which recently won a prestigious award at the Concrete Institute of Australia Biennial Conference and Awards Banquet in Perth, 2001.



| | |
|-------------------|------------------------------------------------------|
| Location | Northbridge, Perth, WA |
| Client | Baulderstone Clough |
| Contractor | Baulderstone Clough |
| Engineer | Helpern Glick Maunsell Taywood Engineering |
| Products supplied | In excess of 180,000m³ of concrete |
| Commencement | November 1996 |
| Completion | August 2000 |