



HMP Perth, Phase 1

Regimes, Energy Centre, Serveries

PROJECT PROFILE



THE TASK

HMP Perth is located on the south banks of the River Tay adjacent to Perth harbour and is Scotland's oldest general prison. Faced with mounting pressure to improve prison conditions during 2003 the Scottish Prison Service (SPS) embarked on the first stage of an ambitious three-stage redevelopment programme.

Phase 1 consisted of three distinct elements: Regimes, Energy Centre and Serveries. A new Regimes building and associated road and service yard was required to centralise the vocational training units, prison laundry and kitchen facilities. The new Energy Centre was needed to centralise and upgrade all building services requirements to efficient modern standards and be designed to cater for the future infrastructure expansion. Five new serveries were required within the existing house blocks, which distribute meals prepared in the Regimes kitchen. All construction work needed to take place within the restrictions of a confined secure working establishment.

TPS was appointed by Amec to provide a multi-discipline design service under a design and build contract.

THE DESIGN

The Regimes and Energy Centre were designed to incorporate modern materials maintaining a contemporary appearance, whilst still being sympathetic to the listed buildings of the original prison. Externally the buildings are clad in fair-faced masonry with grey cladding panels and grey profiled aluminium pitched roofs.

The site is low lying and subject to periodic flooding, necessitating a complex solution for separate foul and surface water drainage. Rising to the challenge, TPS designed an attenuated surface water drainage solution capable of dealing with the most adverse weather conditions.

CLIENT

- Amec
- Scottish Prison Service

PROJECT VALUE

£14m

PROJECT TYPE

Law & Order

SERVICES

- Architecture
- Civil & Structural Eng
- M&E Eng

START DATE

May 2004

COMPLETION DATE

February 2006

ARCHITECT

TPS

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Sustainability was approached from a 'life cycle' perspective and was achieved by maximising energy efficiency and employing easily recyclable materials. Innovative fibre reinforced concrete floor slabs were used to reduce the size of ground beams and pile caps, adding to the buildings sustainable credentials.

THE SERVICE

Due to the scale of the project TPS located key members of the design team on site with Amec in order to provide a fully integrated design and construction team to the client. This allowed constant liaison between the design team, site team, sub-contractors and quantity surveyors, addressing solutions without delay to site operations. It also allowed TPS to liaise directly with Amec in achieving key brief requirements such as life cycle costs and value engineering.

THE RESULT

TPS's multi-disciplinary structure allowed for the timeous production of detailed design information whilst adhering to a compressed programme. The scheme is of high quality, reflecting the close cooperation between the design team and the client.

The completed Regimes facility has been generally recognised to represent a quality benchmark in SPS vocational training provision.

TPS were subsequently appointed to design the £30m Phase 2 stage of the prison redevelopment and currently involved in the invitation to tender with Amec for the conclusive Phase 3 works.



PROJECT PARTNERS

- Planning Supervisor: Amec
- Contractor: Amec

FURTHER DETAILS

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