Sports & Leisure

NLG ASSOCIATES
BUILDING SERVICES DESIGN CONSULTANTS

CLIENT	**Watford Football Club**
PROJECT	**South West Corner**
ARCHITECT	**TTH Architects**
VALUE	
SCOPE OF WORK	**Design of new South West Corner**

NLG Associates were appointed by the stadium development officials direct to work on design development for the Building Services at the newly proposed “South West Corner”, where we were commissioned to deliver a full working design for the Mechanical, Electrical, and Public Health Services.

NLG Associates were fully involved from the beginning of the project through to completion in terms of liaising with utility companies for power, gas, water and sewer connection services. As part of the “South West Corner” project we supplied the client with a brief risk assessment report to quantify the adequacy of the utility services to meet the peak demand requirements and necessary upgrades (which is usually to meet match day requirements).

“South West Corner” is approximately 3000sqm over 3 floors, and includes :-

- 2 no. restaurants for players and officials
- Players / Family Lounge
- Press meetings / interview rooms
- Home & Away Changing Rooms
- Physiotherapy / Doctors Areas
- TV Studio, Media Work Room, IT Room, Match Control

The designed Mechanical Services comprised of meeting ventilation requirements for all areas. A 3d thermal was produced using IESVE software to undertake dynamic heating/cooling and ventilation analysis to deliver the most cost effective solution. Tempered fresh air ventilation supply is paired up with VRF comfort cooling to deliver the HVAC requirements. Players areas were designed to include underfloor heating.

The electrical systems design and specification of Power supplies from the sites main distribution centre to the new stand. Lighting, small power, data, communications containment, voice alarm fire alarms, Dali dimming with presence detection for the control of lighting, PA systems, fibre optic cabling to data racks for the press and media rooms and flood lighting controls.

The Public Health Services design included providing an adequate hot and cold water supply arrangement using highly efficient and cost effective principles to cater for the increased demand during the match day peak requirements. Fully coordinated above ground drainage was designed using proactive methods to minimise/eliminate the risk of surcharge.

NLG Associates have undertaken a full coordinated design of Mezzanine Plant room comprising of boilers, ventilation, hot water heaters, and central BMS control panels.

One of the challenges with this project was the fluidity of the coordinated MEP design and drawing services with specifications which clearly underpinned the client expectations for achieving a high degree of clear communication between multi disciplines.