

## **Specification for Electrical Services**

### **Cringleford Sports Pavillion**

The whole of the work must comply with BS7671 being the 18<sup>th</sup> Edition of the IEE Wiring Regulations. The contract drawings, Health and Safety at Work Act 1974 and all relevant British Standard Codes of Practice.

The installation must be carried out by a contractor who is a member of the NICEIC

The installation shall be flush fitted throughout with all cables buried in the fabric. The Installation shall be carried out with BASEC approved 6242B flat twin core or 3 core PVC insulated and sheathed cables with circuit protective conductors of approved manufacture and to BS 6004, and installed within roof voids, floor voids and chased into walls.

Ensure cable routes are straight, vertical or horizontal and parallel to walls. In approved locations where exposed to view. Conceal cables wherever possible. Positioned at least 150mm clear of other services. Locate concealed horizontal runs in walls within 150mm of ceiling or between 150 and 300mm of floor. Locate concealed vertical cable runs to wall switches and outlets in line with accessory.

Positions shown on the drawings for accessories etc, are only approximate and may vary depending on site conditions and requirements. Exact positions and heights will be agreed between the contractor and the Client during the contract and the tenderers price must include for minor variation from the positions shown. The contractor shall supply, install and connect the light switches as specified and Detailed. All accessory heights shall be in accordance with part M of the building regulations

All accessories to be of Crabtree manufacture or equal and approved

New switches shall generally be white moulded fitted to flush mounted galvanised back boxes.

Where a multi gang switch assemblies occur these shall be arranged so as to provide a clear and logical relationship with the luminaires being controlled. Switches controlling luminaires remote from the immediate area shall be engraved as to their purpose.

The contractor shall supply, install and connect the luminaires as detailed on the drawing.

The contractor shall include for all assembly and flexing of the luminaires as may be required on delivery from the manufacturer. The metalwork of all luminaires is to be efficiently bonded to the wiring system.

The external lighting shall be type as detailed within the luminaire schedule.

Emergency lights are to be supplied and installed in the positions shown on the drawings. All units shall be wired to local lighting circuits with key operated test switches being fitted adjacent the local distribution board. Key switches shall be engraved 'EMERGENCY LIGHTING TEST' and shall isolate the 230 volt supplies to the luminaires.

The power installation shall be as the contract drawing. The wiring is to be on ring, radial, spur and circuits as detailed on the drawing. The majority of the installation shall be PVC insulated cables fitted flush into the building fabric. Final position of all outlets is to be agreed on site.

Supply and install extract fans in the positions as shown on the drawings.  
Accessories: 100mmØ flexible duct, to external vents.  
Switch: local isolation to be provided wired from the lighting circuit and located at high level adjacent to fan in toilet or outside the associated door.

Distribution equipment must be of Crabtree/MEM or Schneider in manufacture

A new Fire Alarm installation shall be supplied and designed to meet the requirements of building control and the fire officer.

The contractor shall upon completion carry out electrical tests as detailed within the relevant sections of BS7671 18<sup>th</sup> Edition of the wiring regulations. On completion of these tests the contractor shall submit all certification on forms laid down by the IEE wiring regulations in the format of the NICEIC or ECA