INVERCLYDE COUNCIL

ENVIRONMENTAL & COMMERCIAL SERVICES

SPECIFICATION FOR

STAIR, CLOSE AND BACKCOURT LIGHTING INSTALLATION

NEW & REFURBISHED SYSTEMS

1.1 The selection and installation of electrical equipment must comply with the current edition of the IEE Regulations (BS 7671). The lighting units shall be positioned to ensure optimum lighting levels throughout the public areas.

1.2 The installation must be electrically isolated from any other electrical installation and connected to an unmetered electricity supply, i.e. the stair lighting system must be separately fused from the door entry, TV amplifier systems etc.

1.3 The Contractor must liaise with Scottish Power for any necessary consent for connection to the electricity supply and temporary metering/billing arrangements until formal adoption by the Council.

1.4 The owner of the property must pay any charges levied by Scottish Power as a result of the renewal or refurbishment of the system.

1.5 New electrical installations will require a building warrant, this is a separate approval process.

2.1 The preferred stair and close luminaires are the Coughtrie Bulkhead Fitting SFB16/PC/SS (2 x 300mm 8w), vandal resistant bowl, parallel circuit variant The fittings should be flush mounted on a recessed BS conduit box to the close wall no higher than 2.3m from close or landing level. Alternatively, for surface mounted conduit or cable as a para 3.3, side entry to the fitting is acceptable. Consideration of safe access for maintenance purposes is essential

2.2 The preferred backcourt luminaires are:-

(i) Bulkhead Luminaire with polycarbonate bowl and 70W SON T Plus lamp,
(ii) The bulkhead fitting described in para 2.1

2.3 Any alternative to the preferred luminaires (para 2.2 and Para 2.2 must be agreed with the Council prior to installation

3.1 The wiring must be minimum of 3 x 1.5mm sq. and sized in accordance with the requirements of the IEE Regulations and be PVC insulted cable reference No 6491X 300/500 volt. This cable must be enclosed in either (a) new dedicated galvanised steel conduit for the sole use of the stair lighting system or (b) existing

steel conduit previously used solely for stair lighting cables. For the sake of clarification, any conduit containing Scottish Power wiring must not be used for the purpose of housing stair lighting cables. Existing metal trunking may be used to house the stair lighting wiring, but only with the express permission of Scottish Power. Plastic conduit may be used but additional mechanical protection will be required from Ground Level to a height of 1.8m

3.2 Protective conductors formed wholly or partly by a metal sheath or armour forming part of a cable must achieve electrical continuity in such a manner as to protect against mechanical, chemical or electrochemical deterioration.

3.3 MICC, FireHuf cable or PVC SWA PVC cable may be used only on the surface and must not be hidden in cavities, plasterwork or brickwork.

3.4 Conductors must be of copper at all times.

3.5 If cable installed is as per 3.2 this cable must be protected at ground level or when run through close or stair landings, to a height of 1.8 metres.

4.1 New systems that are designed to operate entirely on a 24-hour basis will not be acceptable for public maintenance (except where this feeds an emergency lighting circuit).

4.2 A system in a common close that incorporates lighting to a cellar area may be acceptable if the system incorporates a time lag switch to operate the lights in the cellar area. This must be agreed at the design stage.

5.1 A sheet steel locking or screwlock type enclosure or moulded plastic enclosure should be erected near to the point of supply to accommodate an isolator, fuse protection and connection to photocell control unit

6.1 Semi-enclosed fuses to BS 3036 must not be used.

7.1 Photocell controls should not be two-part. An override test switch will be required.

8.1 The photocell sensor must be erected at a height to protect it from vandalism, either front or rear of building, mounted on face of wall, cell pointing upwards. . It shall be full electronic type 70 lux on 35 lux off

9.1 Earthing arrangements and protective conductors must comply with the current edition of the IEE Regulations (BS7671).

10.1 In addition to electrical safety measures, consideration must be given to position of equipment to avoid hazards to residents.

11.1 Every installation must, on completion and before being energised, be inspected and tested in accordance with the requirements of the IEE Regulations. Inverclyde Council must be offered the opportunity to witness the test.

11.2 A Completion and Inspection Certificate as prescribed in the IEE Regulations must be supplied for adoption purposes. In addition the particulars of the installation should be forwarded - the number and position of each luminaire, type of control gear, make and model of photocell, access requirements and special tools (if required)

12.1 Door / padlock keys must be provided, where necessary, to allow access for repair and maintenance.

13.1 The old stair lighting system, including fittings, wiring, conduit, time clock, fuse etc., must be removed upon completion of the new system.

14.1 The completed installation and associated paperwork will be checked by Inverclyde Council to ensure compliance with Specification before being accepted for public maintenance.

15.1 If the specification above is not adhered to, the system will not be adopted for public maintenance. The Council is not bound to accept a system for public maintenance, but if not accepted, details will be given. The Council may impose charges if repeat visits are required as part of the adoption process.