

## **Royal Exchange Building – Proposed replacement of highway lighting units**

### **Introduction**

In 2016, the Council launched its LED Retrofit Project with the aim of replacing all highway light units with LEDs. This included all standard and non standard light units. The four units on the Royal Exchange building are part of this Project. They are non standard units and this design proposal has been developed to deliver the aims of the LED Retrofit Project within the constraints of the listed building requirements.

The documents provided in support of this application are –

1. MSL-12-24502531 Rev F – Site location plan and unit location details
2. MANCHESTERSTRLIGHTING-HS-SURVEYROYALEXCHANGE-SSOW-01 – Safe Systems of work to be applied to this project provided by Amey the Council's lighting contractor
3. MANCHESTERSTRLIGHTING-HS-SURVEYROYALEXCHANGE-RA-01 – Risk assessment for this project provided by Amey.
4. Images of the existing light units – 3 no.
5. Clearflood Large M1 - LED unit technical data sheet

### **Heritage Statement**

With reference to NPPF Section 16 paragraph 194, this proposal seeks to have minimal impact on the Royal Exchange Building. This will be achieved by –

1. retention and reuse of the existing luminaire fixing points
2. the direct replacement of the existing luminaires
3. use of new luminaires that are similar in size / scale to the units they will replace
4. retention of the existing electricity supply / cabling arrangement
5. access to the units via a mobile elevated working platform

Replacement of these units will not impact on the existing building elevations and have a minimal aesthetic impact on the building.

### Existing Installation

The existing highway lighting system includes the 4 no. light units mounted on the Exchange Street elevation of the Royal Exchange Building. These units are mounted at some 17m above ground and have been in situ for over 20 years, though the date of installation is not known.

The existing units can be seen below and close up photos have been provided.



## Electricity Supply

The existing electricity supply point is a feed pillar located adjacent to No.2 Market Street. This supply point has been in situ for over 20 years, as has the wall mounted electricity supply cable that connects all four light units to the supply point, shown below -



## **Proposed works**

### **Light Units**

The proposed light unit is a Clearflood LED supplied by Signify. Each will be attached to the building via a U bracket which facilitates direct replacement of the existing light units using the existing fixing points and avoids any additional drilling or fixing to the building. This is detailed on the drawing - MSL-12-24502531 Rev F. Once installed each light unit will be set at 0° tilt (perpendicular to the building facade). The operation of the light units will be controlled via City Touch nodes as detailed on the Clearflood data sheet. Each node communicates with the Council's Central Management System which enables the operating times and light output to be monitored and controlled remotely.

The life expectancy of the Clearflood unit is 20 years.

### **Electricity Supply**

The existing feed pillar and wall mounted cable is to be retained without alteration. The light units will be replaced on a one for one basis allowing the new units to be connected to the electricity supply without alteration to the existing cable fixings.

The works will be undertaken by the Council's Street Lighting Contractor, Amey. A copy of their Risk Assessment and Safe Systems of Work documentation is provided.

T Powell

Street Lighting Contract Officer

26/ 7/22