

SPECIFICATION

CHRISTMAS LIGHTS AND PROJECTIONS 2022 - 2026

Lot 1 – Christmas Lights

1 General

1.1 Description of Works

The works shall comprise of: -

- 1.1.1 Design and construction of Christmas lighting displays.
- 1.1.2 The cross street and street light column mounted displays are to be erected by the Council's Highways Electrical contractor at the sites indicated on the relevant drawings listed in Table 1 or as directed by the Engineer.
- 1.1.3 Maintenance of the lighting displays by repair and/or replacement.
- 1.1.4 Electrical testing of the displays to be provided.
- 1.1.5 Storage and carriage of the cross street and street light column mounted displays and associated apparatus (to/from the Highways Depot at Clutton BS39 5TG)
- 1.1.6 The provision and carriage of the displays' associated catenary wires, carabiners and street light column mounting bands with appropriate certification for all equipment provided.

1.2 Location/ Access and use of the Site

- 1.2.1 The areas for installation are at the following places:
 - Bath - City Centre and surrounding areas as listed below.
 - Other areas as designated by the Engineer by 31 July of the relevant year

1.3 Contract Drawings

Table 1 List of indicative contract drawings

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| CA1022 | Bath City Centre Christmas Lights and Projection Plan Cross street decorations: locations to tender for are indicated with a red line. |
| CL0501/001 (a to k inclusive) | Current infrastructure - all available positions – Bath City Centre Key: Dark Green symbols = Anchor Points Light Green symbols = Switching Points). |

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| CL0501/002 (a) | Current infrastructure positions – Combe Down, Bath. Street light columns with a star to have decorations mounted. These are fitted with an RCD, Timer and Commando Socket. |
| CL0501/003 (a) | Current infrastructure positions – Larkhall, Bath. Street light columns with a star to have decorations mounted. These are fitted with an RCD, Timer and Commando Socket. |
| CL0501/004 (a and b) | Current infrastructure positions - Weston, Bath. Street light columns with a star to have decorations mounted. These are fitted with an RCD, Timer and Commando Socket. |
| CL0501/005 (a to d inclusive) | Current infrastructure positions – Keynsham. Street light columns with a star indicate that these have been adapted for column mounted displays. A minimum of 21 to have decorations mounted. These are fitted with an RCD, Timer and Commando Socket. |
| CL0501/006 (a to d inclusive) | Current infrastructure positions – Midsomer Norton. Street light columns with a star to have decorations mounted. These are fitted with an RCD, Timer and Commando Socket. |
| CL0501/007 (a and b) | Current infrastructure positions – Radstock. Street light columns with a star to have decorations mounted. These are fitted with an RCD, Timer and Commando Socket. |
| CL0501/008 (a to d inclusive) | Current infrastructure positions – Walcot St, Bath. Street light columns with a star to have decorations mounted. These are fitted with an RCD, Timer and Commando Socket. |
| CL0501/009 | Current infrastructure positions - Moorland Road, Bath. Street light columns with a star to have decorations mounted. These are fitted with an RCD, Timer and Commando Socket. |

1.4 Health and Safety

The Supplier shall comply with the Health and Safety at Work Act 1974, CDM Regulations and all other relevant statutes.

1.5 Knowledge of site

- 1.5.1 Prior to signing this agreement, the Supplier shall examine the indicative drawings and visit the sites to be satisfied as to site conditions, the full extent and character of the sites, the quantity, type and condition of assets in-situ, the nature of the ground and the execution of the contract generally as no claim on the grounds of want of knowledge in any respect will be entertained.
- 1.5.2 The Supplier to note the type of anchor bolt fixings for cross street displays in Bath City Centre when designing schemes. The high number of Listed Buildings means replacement of existing anchors for a different type is unlikely to be permitted.

1.6 Materials

- 1.6.1 All materials shall be fit for their intended purpose and comply with an appropriate British Standard or British Standard Code of Practice issued by the British Standards Institution or an equivalent standard of a member country of the European Economic Community (EEC) relevant Standards.

2 Design

- 2.1 The Supplier shall be responsible for the design of the displays.
- 2.2 The Supplier's attention is drawn to the fact that the Council, will consider aesthetic appearance, energy efficiency and cost.
- 2.3 The design shall include the following: -
 - 2.3.1 the location of each display and the number of catenary wires; anchor bolts carabiners and street light column mounting bands required-all to be provided.
 - 2.3.2 coloured drawings/photograph of the proposed designs showing day and night time appearance.
 - 2.3.3 a description of the type of display including the materials, arrangement of components, type and number of lamp(s) included within the display and any standards and/or approvals with which the display complies, e.g. fireproof ratings, CE marks and the like;
 - 2.3.4 the overall size of each display.
 - 2.3.5 the weight of each display in kilogrammes.
 - 2.3.6 the power loading of each display in Amperes.
 - 2.3.7 the power consumption of each display in Watts.
 - 2.3.8 the wind loading of each display in square metres.

- 2.3.9 calculations and methods to verify the integrity of the displays to be mounted on the council's infrastructure, that shall be prepared by a suitably qualified structural engineer.
- 2.3.10 the viewing angle of LEDs.
- 2.3.11 Estimated total Annual Consumption Certificate for all displays
- 2.4 Refer to Appendix A for design guide details.
- 2.5 Refer to Drawing Numbers CL0501/001a-k for the locations of anchor bolts for supporting the display street crossings required in Bath City Centre. (These will be tested annually to 6kn).
- 2.6 Refer to Drawing Numbers CL0501/001a-k to CL0501/009 inclusive for indicative locations of electrical supply points, adapted street light columns and anchor bolt locations.
- 2.7 All displays will be LED and shall be fitted with a 16a commando plug to reach an appropriate switch point.
- 2.8 No displays that contain flashing red, yellow or green lamps shall be allowed within 10 metres of a set of traffic signals or pedestrian crossing.
- 2.9 Displays must not obscure the field of view of any CCTV cameras.
- 2.10 It should be noted that displays in the current positions shown on the Drawings CL0501/001a-k to CL0501/010, do not obscure the CCTV cameras field of view and have had approval from the Council's CCTV Systems Management Officer, Lewis House, Manvers Street, Bath BA1 1JG. Tel: 01225 477447 or 01225 477735.
- 2.11 The latest dates that the Employer shall supply design and/or location information for any changes to displays shall be:
- for bespoke displays 31 July of the relevant year; and
 - for standard or repeat designs 31 August of the relevant year.

3. Storage and maintenance

- 3.1 The Supplier shall ensure that the cross-street displays, street light column mounted displays and relevant mounting equipment are delivered and taken from the Clutton Depot in a timely manner as per the agreed programme and taken to secure and appropriate storage facilities.
- 3.2 The Employer reserves the right to inspect the displays at the Supplier's storage facilities after giving reasonable notice.
- 3.3 The displays and their associated components, equipment, and the like, shall be maintained to a standard that meets their original design specification or as agreed with the Engineer throughout the contract period.

- 3.4 No claims and/or expenses associated with storage and/or maintenance of the displays will be entertained.

4. Anchor Bolts

- 4.1 The Council shall carry out annual load testing of all anchor bolts to 6kn for use on cross street displays in use for Christmas Lights. A copy of the test report is available on request from the Engineer.

5. Other Works Records

- 5.1 The Supplier shall keep records, in a format to be agreed with the Engineer, of:
- the positions of erected displays
 - the type and specification of displays
- 5.2 The Supplier shall provide the information required in 5.1 above within 60 days of completion of any of the described Works.

6. Electrical Matters

- 6.1 All equipment is to be installed in full compliance with the current edition of:
- 6.1.1 BS 7671; 18th Edition Institution of Engineering and Technology Requirements for Electrical Installations;
- 6.1.2 Institution of Lighting Professionals Code of Practice for Electrical Safety in Public Lighting Operations; ILP Lighting Guide 06
- 6.1.3 The Electricity Supply Regulations 1988 (Amended 1990); and
- 6.1.4 Electricity at Work Regulations 1989.
- 6.1.5 Displays should also allow a means for the catenary cable to be earth bonded.
- 6.1.6 All supplies will be protected by a 30mA RCD at the point of origin.
- 6.2 The Supplier shall provide electrical test certificates to certify that his displays are safe.