AUSTIN ENERGY

PURCHASE SPECIFICATION

FOR

DECORATIVE LIGHTS

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<thead>
<tr>
<th>DATE</th>
<th>PREPARED BY</th>
<th>ISSUANCE/REVISION</th>
<th>APPROVAL PROCESS MANAGER/M&amp;ESS MANAGER</th>
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<tr>
<td>12/03/98</td>
<td>Peter G. Soosay</td>
<td>Issuance</td>
<td>George Martinez / Gary Williams</td>
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<td>12/10/98</td>
<td>Peter G. Soosay</td>
<td>Revision</td>
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<td>6/2/03</td>
<td>Steven Booher</td>
<td>Revision</td>
<td>George Martinez</td>
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<td>2/10/04</td>
<td>Keith W. Harvill</td>
<td>Revision</td>
<td>Greg Troxell</td>
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<td>7/14/10</td>
<td>Gary Haydon</td>
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REASON FOR REVISION

Updated Specification

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<th>AFFECTED PARAGRAPHS</th>
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<tr>
<td>1.1.2: Removal of the word “cast”</td>
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<tr>
<td>3.2.1 a: Changed IFP 6591 to RAL 6591</td>
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<td>3.2.1 d: Changed 10 to 25</td>
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<tr>
<td>3.2.2: Removed “slip on and clamshell split”</td>
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<td>3.4.2: Added “high power factor”</td>
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<td>3.7: Changed drawing number from EL-534 to 1921-10</td>
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<td>3.8: Changed entire paragraph</td>
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<td>3.10 g: Added Sunset Valley</td>
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<td>3.11: Added Warranty Requirements</td>
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1.0 SCOPE AND CLASSIFICATION

1.1 Scope

1.1.1 The City of Austin for the Electric Utility Department is hereinafter referred to as Austin Energy (AE). Manufacturers or firms supplying decorative lights under these specifications shall have at a minimum of ten (10) years of experience in the manufacture and/or sale of decorative lights.

1.1.2 The only materials approved for the lamp poles, pole base covers, and luminaire assemblies are aluminum and steel. The pole styles include smooth, tapered, fluted and combinations thereof (Attachment IV).

1.2 Classification

Austin Energy will use the decorative lights in commercial and residential sub-divisions, for aesthetic improvements.

2.0 APPLICABLE SPECIFICATIONS

The decorative lights shall be manufactured in compliance with the latest revision of applicable EEI, NEC, NESC, ASTM, NEMA, and AASHTO standards, including:


2.2 ASTM B179 - Standard Specification for Aluminum Alloys in Ingot and Molten Forms for Castings from All Casting Processes

2.3 ANSI/AWS D1.2 - Structural Welding Code – Aluminum

2.4 IES - Illuminating Engineering Society

3.0 MATERIAL REQUIREMENTS

3.1 The Manufacturer shall only use approved materials.

3.2 The approved materials shall include the following:

3.2.1 Paint

a) Bidders shall use the following powder coat finishes and colors (or equal) as a guideline. Color samples shall be submitted with bid: RAL 6009 (Green); RAL 6591 (Black) or RAL 8014 (Bronze).

b) All poles shall be coated with solid colors and lead free. The paint color will be specified at the time of order.

c) Warranty on Paint Finish

The Vendor shall warranty the paint finish for a minimum period of five (5) years.
d) Touch-Up Paint Kit

Upon Bid award, the Vendor shall provide for every twenty five (25) decorative lights shipped to Austin Energy, a can of spray touch-up paint to be used to touch up any scratches.

3.2.2 Pole, Pole Base Covers and Luminaire Fixtures

Acceptable pole bases include one-piece solidly welded bases.

3.2.3 Pole Shaft

Steel pole (if applicable) shafts shall be galvanized and painted.

3.2.4 Style and Luminaire Fixture

a) Each style of decorative light offered by Austin Energy is unique. Inter-changeable luminaire fixtures are not required.

b) Acceptable materials for the luminaire glass globe type fixtures are acrylic and glass. Polycarbonate luminaire fixtures are not acceptable.

c) The fixture shall be die cast with a terminal block that allows the ballast assembly to be removed without disturbing the wiring that comes up through the pole shaft.

d) The fixture shall utilize a tool free access to the lamp and ballast assembly. The ballast assembly shall be designed to remove the ballast and lamp socket by a drop in ballast tray. All components shall be pre-wired to a terminal board requiring only power connection to clearly identified terminals. Wiring shall be neatly routed, marked and harness bound rated for 125 degrees centigrade.

e) All screws, nuts, bolts washers and clips shall be stainless steel and painted if required.

f) All fixtures supplied shall have the option to install house side shields.

3.3 Photoelectric Control Receptacles

Photoelectric control receptacle shall be molded plastic with electric contacts made of brass or tin plated phosphorous bronze. The receptacle shall be 3-pole 3-wire NEMA locking type which accommodates the use of a photo control with the following dimensions: 3 inches in height with a 3 inch diameter.

3.4 Ballasts

3.4.1 THE VENDOR SHALL PRE-WIRE ALL LUMINAIRE FIXTURES FOR 120 VOLTS, UNLESS STATED OTHERWISE IN THE BID.

3.4.2 The luminaire fixture shall have a multi-tap, high power factor ballast. Typical voltages shall include 120 V, 208 V, 240 V, and 277 V.

3.4.3 The ballast shall be wired with inter-locking connectors for easy installation and removal of the ballast.

3.5 Lamp and Lamp Base

Only the standard glazed porcelain mogul base is acceptable. The luminaire fixtures shall be able to accommodate both metal halide and high-pressure sodium (HPS) lamps, with the appropriate ballasts for the metal halide and high-pressure sodium lamps. The type of lamp required will be specified at the time of order.

3.6 Pole Structural Integrity
3.7 Pole Base

The poles supplied by the Vendor shall have the bolt pattern, which complies with the attached City of Austin street light foundation Drawing 1921-10. Should the installation of the foundation bolts require any special tools other than a standard socket/ratchet or open end wrench then the special tools shall be supplied with the purchase of every 5 poles at no extra cost of the pole to Austin Energy.

3.8 Reflector

All luminaire fixtures shall have faceted down light reflectors or equal to provide an asymmetric Type III or symmetric Type V light distribution as requested at time of order. In addition, the fixture shall have any necessary reflector required so that the fixture is “full cut-off” to be in compliance with the City of Austin Land Development Code Subchapter E, Section 2.5 which can be found at:


3.9 Socket and Ballast Assembly

The socket and ballast assembly shall be designed such that it is removable without taking the fixture off the post. A quick-disconnect terminal type connector shall be used to disconnect the power to the assembly from the incoming power terminal block.

3.10 Pole Styles

Austin Energy is requesting bid submittals on the below listed pole styles:

a.) Mount Bonnell – Attached Drawing E- SLMB
b.) Barton Hills – Attached Drawing E-SLBH
c.) Town Lake – Attached Drawing E- SLTL
d.) Pecan Street – Attached Drawing E-SLPS
e.) Symphony Square- Attached Drawing E- SLSS
f.) Sunset Valley – Attached Drawing E- SLSV

3.11 Warranty

The vendor or manufacturer shall warranty all parts for a minimum of two (2) years.

5.0 ASSEMBLY INSTRUCTIONS

The Vendor shall ship the decorative lights with all applicable assembly instructions, clearly identifying the house side and street side, where applicable to the style of decorative light.