

ORNAMENTAL STREET LIGHT

**\*\*From Barre City FEGC F 026-1(34) C/2**

xx. DESCRIPTION. This work shall consist of furnishing and installing ornamental street light poles, fixtures, lights, foundations, wiring, and all incidentals, as shown in the Plans and as directed by the Engineer.

The work under this Section shall be performed in accordance with these provisions, the Plans, and Section 679 of the Standard specifications.

xx. MATERIALS. Materials shall meet the requirements of Section 679 and the following:

- (a) Concrete. Concrete shall meet the requirements of Section 541 for Concrete, Class B.
- (b) Light Poles. Poles shall be decorative 12 fluted, mandrel formed, aluminum tapered shaft 6" and 7" round welded to a 6-5/8" round extruded aluminum pole base which is welded top and bottom to a cast aluminum anchor plate. The pole shall include a 4-1/2" x 10" maintenance opening. The pole shall be model: RTA906V-13-GFI-BA (13 foot height) manufactured by Lumec. The decorative base cover shall be made from two cast-aluminum pieces fastened together with stainless steel hardware around the base of the light pole. The base cover shall be complete with a door to access the pole maintenance opening. The pole shall include a 120V duplex receptacle with common ground fault interrupter, as shown on the Plans.
- (c) Finish. Light poles, bases, base covers, and fixture adapters shall be "textured black" (code: BKTX) LUMISEAL™ surface treatment and LUMITAL™ thermosetting polyester resin based powder coating according to the Lumec specifications.
- (d) Light Fixtures. Luminaires shall be glass globe Lumec model S56- with adaptor model SFX manufactured by Lumec, with Finials by Lumec, model FN10. Each luminaire shall include a photoelectric cell by Lumec, model PH8.
- (e) Lamps. Lamps shall be 90 watt LED, Lumec model 90W49LED4K. The prismatic optical systems shall be asymmetrical prismatic globes, Lumec model LE3, with house side shields for all lights, except as indicated in the Plans from Station 116+83 LT to 122+47 LT, which shall have no house side shields.
- (f) Wiring. The Contractor shall provide and install all wiring for the proposed lighting system. The wire shall be copper, 600 volt insulated, type XHHW-2 to the gages specified in the Plans.
- (g) Banner Arms. The banner arms shall be Lumec model BAS(2) 30. The banners arms shall be designed to fit on a fluted pole, using a central tubing insert through two opposite holes.
- (h) Lumec Ordering Summary.

Luminaire: S56 Serenade (Glass Globe)  
LED Wattage: 90W49LED  
Lamp Temperature: 4,000K  
Optical System: LE3  
Voltage: 208  
Adapter: SFX  
Options: FN10 (Finial), PH8 (Photocell)  
Pole: RTA906V-13  
Pole Options: GFI  
Banner Arms: BAS(2)30(Two Arms, spacing TBD)  
Finish: BKTX (Black textured)

LUMEC  
www.lumec.com

Local Contact:  
Apex Lighting  
27 Lowell Street, Suite 207  
Manchester, NH 03101  
Tel.: (603)695-6561

- (i) Alternate Manufacturers. The following two manufacturers are acceptable alternative manufacturers. The ordering information for the equivalent ornamental street lights is as follows.

Other ornamental street lights that meet the requirements of the Contract Documents may be used upon approval of the Engineer.

Alternate manufacturers include:

- (1) Sternberg Ordering Summary.

Luminaire: A850ASRLLED Old Town (Acrylic Globe)  
LED Wattage: 6ARC45T3 - 96W LED  
Lamp Temperature: 4,500K  
Optical System: Type III  
Voltage: 208  
Fitter: BD5  
Options: PEC2-E (Electric Button Photocell)  
Pole: Oxford Series 6213-ETFP5  
Pole Options: GFI  
Banner Arms: DBA (Two Arms, spacing TBD)  
Finish: BKT (Black textured)

Sternberg  
www.sternberglighting.com  
Local Contact:  
Visible Light  
24 Stickney Terrace, Suite 6  
Hampton, NH 03842  
Tel.: (603)926-6049

- (2) Spring City Ordering Summary.

Luminaire: ALMDNM Dunmore(Acrylic Globe)  
LED Wattage: 99W LED  
Lamp Temperature: 4,500K

Optical System: HC3-Type III  
Voltage: 208  
Options: Electric Button Photocell  
Pole: North Hampton (A18) 13'  
Pole Options: GFI  
Banner Arms: Two arms spacing TBD  
Finish: Classic Black

Spring City  
www.springcity.com

Local Contact:  
Spec-Lines  
628 Main Street  
Reading, MA 01867  
Tel.: (800)974-6031

- xx. CONSTRUCTION REQUIREMENTS. The Contractor shall submit, as Working Drawings in accordance with Subsection 105.03, manufacturer's descriptive literature for materials specified.

Transport, storage, and handling of products shall be in accordance with the manufacturer's instructions.

Ornamental light poles shall only be installed in the locations specified in the Plans and in accordance with the manufacturer's instructions.

- xx. METHOD OF MEASUREMENT. The quantity of Special Provision (Ornamental Street Light) to be measured for payment will be the number of each unit installed in the complete and accepted work.

- xx. BASIS OF PAYMENT. The accepted quantity of Special Provision (Ornamental Street Light) will be paid for at the Contract unit price for each. Payment will be full compensation for furnishing, transporting, handling, assembling, and placing the materials specified, including poles, fixtures, lamps, foundations, concrete bases, anchors, grounding, receptacles, wiring, photocells, and accessories; and for furnishing all labor, tools, equipment and incidentals necessary to complete the work.

The cost of furnishing and installing conduit and pull boxes will be paid separately under the appropriate Contract items.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
900.620 Special Provision (Ornamental Street Light)	Each