<u>NOTE TO THE CONSULTANT</u>: This specification must be used in conjunction with Section 26 00 00 - Electrical, so that additional equipment and practices needed for installing outdoor lighting will be incorporated into the spec package. (Edit out this note).

PART 1 - GENERAL

1.01 Description: This work shall consist of furnishing and installing lighting fixtures, poles, mounting hardware and footings. Provide photoelectric controls, time clocks/switches and light fixture maintenance labels as required:

1.02 Related Sections:

Section 26 05 00 - Electrical

1.03 Quality Assurance:

A. The installer shall be a licensed electrical contractor with a minimum of two years of experience in similar lighting fixture installations.

B. Thoroughly inspect the site, existing electrical panels and other related work

1.04 Submittals: Submit Shop Drawings for approval by the Engineer, of all electrical lighting fixtures and associated hardware.

1.05 Product Handling: All materials are to be new and delivered to the site in an undamaged condition. Store materials off the ground and protect from damage.

PART 2 - MATERIALS

2.01 The SPR Standards for <u>Lighting Fixtures, Poles and Bases</u> shall be:

A. For General Use:

1. Light Poles: All poles used for exterior pedestrian or security lighting shall be no higher than 20’ for ease of maintenance (typical).

2. <u>Decorative Post Light</u>: 16 foot pole, Staff #SA1-SP-1-H100-BK/S35 with silver louver, polycarbonate enclosure and 175 watt metal halide coated lamp and 120 V ballast.

3. <u>Area Light</u>: Kim #2B/AR3/150/BL type III sharp cut-off distribution, fused, wet label, Lexan shield, black finish with 150 watt high pressure sodium lamp and 120 V ballast.

4. <u>Concrete Pole for Area Light</u>: Centrecon #SBR-5.5-S-613 round concrete pole with base plate for surface mounting.

5. Or, approved equal.

B. For "Historic" or Olmsted Parks use:

1. "<u>Volunteer Park</u>" Light Standard: Pole-mounted 18" Globe Sphere Fixture, 100 Watt Metal Halide Lamp. Pole: Olympic Foundry Part # O-LS-1-OT-12'- TGIC polyester powder coated Tiger Drylac #549/88888 - Bengal Black SM High GL, Batch #IL 12921G -NEW. Lamp/ Globe/ Louver/ Refractor: Lumec Part #100-MH-LL18-PEO-RR5-480. Globe/ Lamp Manufacturer: Lumec, 640 Cure-Boivin Blvd., Boisbriand, Quebec J7G2A7, (450) 430-7040.Local Rep: Jim Terry 360-568-1135. Alternate source and models: Globe and adaptors: King Lighting Part# KG20-LAR-III-100MH-120-BK-K4, King SCL capitol, Pole: West Coast Engineering, WCE 12' (verify height) cast aluminum tapered octagonal pole and base. Occidental Square alternate globe style: Acorn.

B. "<u>Wilcox Wall-mounted 14</u>" Globe Sphere Fixture, 70 Watt Metal Halide Lamp - Base: Wilcox Wall Light available from Thomas Machinery & Foundry (360)651-9100. The model number is #GR-135001. Base Color: TGIC polyester powder coated Tiger Drylac #549/88888 – Bengal Black SM High GL, Batch #IL 12921G. The Ballast is: Advance - Model#71A5181 - 120/277 volts with a medium base HID socket. The Globe is: 14" Globe w/ 5-7/8" neck, white translucent polycarbonate globe with expansion adapters 6" to 8" neck, model#FP3715 with 5-foot+/- high pole.

C. Or, approved equals.

2.02 Ballasts: Ballasts shall be energy efficient or electronic type. Electronic ballast shall have maximum total harmonic distortion of 10% and minimum ballast factor of 95 percent. Ballasts shall be covered by a two year warranty against defects and warranty shall include payment for normal labor costs or replacement of inoperative in-warranty ballasts. Provide thermal protectors in fixtures where required by Code.

2.02 Thermal Protectors: Provide thermal protectors in fixtures where required by Code.

2.03 Light Fixture Maintenance Labels:

PART 3 - EXECUTION

3.01 Installation:

A. For Lighting Fixtures, the installer must be a licensed electrical contractor, experienced in lighting fixture installations.

B. Fixtures shall be neatly and firmly mounted, using mounting hardware as directed in manufacturer's specifications and the Plans and Details.

C. Install a photo-cell bypass switch for all applications where photo-cells are specified for outdoor lighting installations.

B. Exterior lighting fixtures shall be constructed and gasketed to prevent entry of dirt and insects and damp or wet labeled as required.

C. Provide reinforced concrete pole bases as indicated. Coordinate with concrete work. Verify exact location of light poles with Engineer prior to placement.

D. Adjust photoelectric controls and time clocks/switches as directed by the Engineer.

END OF SECTION