

## **RESOLUTION NO. 06-04**

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### **A RESOLUTION ESTABLISHING THE CITY OF LEE'S SUMMIT STREET LIGHTING POLICY AND STANDARDS.**

WHEREAS, on November 4, 1986, the Board of Alderman for the City of Lee's Summit, Missouri ("City") passed Resolution No. 86-24 which provided the minimum street lighting standards applicable to the installation and upgrading of street lights; and

WHEREAS the City Council of Lee's Summit desires to modernize and upgrade the streetlight system within the City limits, and

WHEREAS, the City Council desires to adopt and apply reasonable and uniform standards for the design and construction of street lighting taking into account the character and needs of individual property owners, type of adjacent land uses, and the nature of pedestrian and vehicle traffic on the street network, and

WHEREAS, the City Council desires to rescind Resolution 86-24 and replace it with the Street Lighting Policy and Standards set forth herein below.

NOW THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF LEE'S SUMMIT, MISSOURI, as follows:

SECTION 1. That Resolution No. 86-24 is hereby rescinded.

SECTION 2. All new street lighting required, approved or installed by the City shall conform to the policy, minimum standard and criteria contained in this Resolution.

SECTION 3. The City will continue to provide street lighting infrastructure on the public street system either by lease arrangements with regulated public utility companies or by contracting with qualified firms for design, construction or maintenance of City-owned lighting systems. New lighting, added to the City's system after the effective date of this Resolution, will be designed, installed, operated and financed as described in this Resolution.

SECTION 4. Nationally recognized Standards, Codes and Design Criteria from the following sources shall be applicable, as referenced or as modified by specific terms of this Resolution. In that these documents may be updated or revised from time to time, the most recent version of each shall apply.

ANSI/IESNA RP-8	American National Standards Institute/Roadway Lighting Design	
	Illuminating Engineering Society North America	
NEC Standards	National Electrical Code	Electrical Circuits
NESC Standards	National Electrical Safety Code	Electrical Hazard Areas
ASTM A595	American Society for Testing Materials	Steel poles
ICEA/NEMA S-66-524	Insulated Cable Engineers Assoc.	Electrical cables
NEMA TC-7	National Electrical Manufacturers Assoc.	Electrical ducts

SECTION 5. Uniformity of Lighting Hardware

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All new street lighting installed after the effective date of this Resolution shall consist of only high pressure sodium (HPS) lamps horizontally mounted in enclosed fixtures on metal poles served with underground wiring. Only fixtures constructed with optical systems that control and limit the distribution of light within a zone beginning 15 degrees or more below the horizontal axis of the fixture may be used to illuminate City streets. Standard HPS lamps of : 100 watt (9500 lumen); 150 watt (16,000 lumen); 250 watt (27,500 lumen); and 400 watt (50,000 lumen) output and metal poles 25 ft to 40 ft in height shall be utilized to meet requirements of this Resolution. Other light sources or decorative style fixtures, poles or hardware may be used only with specific approval of the Public Works Department and the City Council.

### SECTION 6. Lighting Policy and Classification of Streets

#### A. ~~Major~~ Arterial Streets:

The City will arrange for installation of either leased or city owned continuous street lighting on all newly constructed or improved major arterial streets and intersections financed with General Revenue, Capital Improvement Programs, Bonds, Grants or other fund sources. The street lighting will be designed to satisfy recommended values for the Illuminance Design Method contained in the ANSI/IESNA RP-8 listed above or the latest revision for the applicable road class, pavement type and pedestrian conflict criteria.

#### B. Collector Streets:

The City will arrange for installation of either leased or city owned of continuous lighting on all newly constructed or improved collector streets financed with General Revenue, Capital Improvement Programs, Bonds, Grants or other fund sources. The lighting will be designed to satisfy recommended values for the Illuminance Design Method contained in the ANSI/IESNA RP-8 listed above or the latest revision for the applicable road class, pavement type and pedestrian conflict criteria.

#### C. Local / Residential Streets:

1. The City will continue to provide, operate and arrange maintenance of existing leased lights placed on residential streets in accordance with the policies originally established by Resolution 86-24.

2. Effective July 1, 2006, the City will also assume the full lease cost of all existing HPS fixtures on metal pole lights or underground wired lights installed under special cost sharing agreements with Home Owner Associations as an upgrade to the former Mercury Vapor (MV) fixtures on wood pole/overhead wiring standard imposed by Resolution 86-24. Any decorative lighting or additional lights over and above the minimum standard will continue to be the responsibility of the Home Owner Associations in accordance with their cost sharing agreements. The annual billing to Home Owner Associations for the incremental lease cost of HPS fixtures on metal poles or underground wiring shall cease.

3. The City will budget sufficient funds annually to operate and maintain the "base" level of illumination required for new or future residential streets under this Resolution.

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4. The "base" level of lighting required for local/residential streets approved and constructed after the effective date of this Resolution shall be a 150 watt (13,500 lumen) HPS enclosed fixture mounted on a 25 ft metal pole served with underground wiring:

- at each street intersection
- near the end of each cul-de-sac or street termination.
- at changes of alignment greater than 60 degrees and more than 250 ft from an intersection.
- at staggered positions on each side of a divided roadway, if block length exceeds 250 ft.
- at any point greater than 500 ft along the same street from another required light.

5. Subdivision Plats: All subdivision plats approved after the effective date of this Resolution shall have utility easements shown on the plats at locations in accordance with the requirements for street light placement.

### D. Residential Lighting Upgrades:

1. The City will consider upgrades from the "base" level of residential lighting or the installation of continuous lighting, utilizing standard lighting equipment, in new residential subdivisions if neighborhood associations, or developers are willing to enter into binding agreements to fund the differential cost of leasing for additional lights over and above the number of the "base" lights paid by the City.

2. In the event a developer or Home Owners Association wishes to upgrade the number of standard lights beyond the "base" light requirement of Section 6.C.4. or to install continuous lighting, they should prepare a preliminary lighting plan and submit that plan to the City for review along with other infrastructure plans and necessary executed easements. When continuous lighting is proposed, the design shall satisfy recommended values for the Illuminance Design Method contained in the ANSI/IESNA RP-8 listed above or the latest revision for local streets. Appropriate cost sharing agreements to fund the differential cost of the lighting upgrade over and above the "base" lights paid by the City, will be processed along with the development plan.

### E. Rural Roads and Intersections

Rural intersections of City maintained streets or the intersections of streets with State maintained highways in rural areas will be illuminated by one or more leased streetlights as required by the physical conditions. Such lights will be operated and maintained with City funds. Streets shall be considered rural if adjoining property is zoned and used for agricultural purposes or large tracts of undeveloped property adjoin the road. The installation of leased lights at State highway intersections in rural areas is subject to approval of Missouri Department of Transportation.

### F. Highways and Jurisdictional Boundary Roadways

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The City will not operate, maintain or participate in the cost of street lighting on State highways or on boundary roadways common with other political jurisdictions without entering into long-term intergovernmental agreements with the appropriate agency(s). Such agreements must be approved by the City Council and clearly describe each agency's obligations and costs for constructing, operating, maintaining and revising the lighting system or the agreement therefore.

**G. Primary Thoroughfares:**

Street lighting modernization requests for existing arterial or collector streets may be initiated via the annual Capital Improvements Program and annual operating budget..

**H. Alleys**

Only alleys in the Central Business District shall be considered public streets and illuminated at City expense under this Resolution.

SECTION 7. That this resolution shall be in full force and effect from and after the date of its passage and approval.

PASSED by the City Council of the City of Lee's Summit, Missouri, this 16th day of February, 2006.

ATTEST:

  
City Clerk Denise R. Chisum

  
Mayor Karen R. Messerli

APPROVED AS TO FORM:

  
Assistant City Attorney John L. Mautino