

STREET LIGHT STANDARDS

CAPITAL INVESTMENT COMMITTEE

CITY HALL BOARD ROOM - MARCH 24, 2016 @ 3:00 PM

Why Are We Here?



- To date, most street lights located in the City are owned, operated and maintained by Middle Tennessee Electric Membership Corporation (MTEMC). The City simply pays a base fee to MTEMC for each light.
- With this model, the City has very little control or input about the type, location or design of street lights. This leads to inconsistent lighting throughout the City.
- Last Fall, the City contracted with Barge Waggoner Sumner & Cannon, Inc. (BWSC) to develop detailed standards for street lighting in the City of Franklin.
- This information was presented at the monthly Design Professionals Meeting in March.

Current Standards



▶ Light Color & Type

Light color shall be "white" light, generally provided by metal halide fixtures. Other lamp options, including, but not limited to, color-corrected mercury-vapor, colorcorrected high pressure sodium and low pressure sodium, may be approved by the City Engineer on a case-by-case basis.

Spacing

- Street light lights shall be placed at mid-block locations such that a minimum spacing of 300 feet and a maximum spacing of 500 feet is maintained between all lights.
- 2) Local residential streets shall have 1 light at each intersection.
- If the intersection lights would exceed 500 feet apart on a straight street, mid-block lights shall be added so lights do not exceed 500 feet spacing. If the street has a curve, judgment shall be used to reduce the spacing to less than 500 feet.

Light Levels

All lighting shall have the intensities and uniformity ratio consistent with the AASHTO Roadway Lighting Design Guide...





Proposed Standards



- Light Temperature & Type
 - Street lighting within the City of Franklin shall have a light temperature of 4,000 Kelvin (K).
 - 2) All street lighting installed shall be Light Emitting Diode (LED). Any existing lighting system to be transferred to ownership of the City of Franklin shall be compatible with LED retrofit fixtures...
- ▶ Light Levels
 - Arterials & Major Collectors
 - Shall meet the standards set forth in the American National Practice for Roadway Lighting (ANSI/IESNA RP-8-14), issued June 26, 2014 by the American National Standards Institute (ANSI) and the Illuminating Engineering Society of North America (IESNA)

Proposed Standards

(Continued)



- Light Levels
 - ▶ Minor Collectors & Local Streets
 - Option 1 Designed per ANSI/IESNA RP-8-14
 - > Option 2 Prescriptive
 - Light at everyintersection
 - Light at in every cul-de-sac
 - General spacing guidelines









Next Steps



- Incorporate comments into final draft.
- 2) Present final draft to BOMA and Franklin Municipal Planning Commission (FMPC) at a Joint Workshop.
- 3) Obtain final approval (Spring 2016)
 - a) From BOMA to update Transportation & Street Technical Standards
 - b) From FMPC to update Zoning Ordinance
- 4) New standards go into effect.

<u>NOTE</u>: NO development which has begun the site plan process will be required to comply with these new standards.

Questions?



Thank you for your time and participation!

Contact Information:

Jonathan Marston, P.E.

Assistant Director of Engineering

615.550.6675

jonathan.marston@franklintn.gov

H. Gupta Borra, P.E., PTOE

Traffic Engineer 2

615.550.6673

gupta.borra@franklintn.gov