



Department Source: City Utilities - Water and Light

To: City Council

From: City Manager & Staff

Council Meeting Date: April 2, 2018

Re: Street light requests

## Executive Summary

The Street Lighting Committee, which is comprised of staff from the City's Law Department, Water & Light, Public Works, Office of Neighborhood Services, Police, and Office of Sustainability, has received three requests for additional street lights.

- 1) Increased lighting along Cass Drive between Rice Road and Mohawk Avenue.
- 2) Increased lighting in the Bellwood subdivision and additional street lights along West Broadway Street near Reedsport Ridge.
- 3) Increased lighting in the East Campus neighborhood.

The Street Lighting Committee has reviewed these requests and recommends the following:

- 1) Approving the request for additional street lights by installing 1 street light along Cass Drive between Rice Road and Mohawk Avenue
- 2) Approving the request for additional street lights by installing 2 street lights along West Broadway Street near Reedsport Ridge.
- 3) Approving the request for increased lighting in the East Campus neighborhood by upgrading the 36 existing mercury vapor street lights in the area.

## Discussion

A request for increased lighting along Cass Drive between Rice Road and Mohawk Avenue has been received. After review, it has been determined that Cass Drive between Rice Road and Mohawk Avenue is currently lit consistent with Chapter 27-149 of the City's code of Ordinances in regards to street lighting along residential streets. To satisfy the requests for additional lighting, the street light committee would recommend the installation of 1 additional street light along Cass Drive between Rice Road and Mohawk Avenue as shown in Exhibit A. The requested street light is located within a legacy Boone Electric Cooperative served neighborhood within the City's service territory. The street light would be a 250 watt high pressure sodium lamp with full cutoff, installed on a new wood pole. Reoccurring costs would be \$10.18 per month per light or \$122 annually.

A request for increased lighting in the Bellwood subdivision and additional street lights along West Broadway Street near Reedsport Ridge has been received. After review, it has been determined that the lighting in the Bellwood subdivision and along West Broadway Street near Reedsport Ridge is not lit in accordance with Chapter 27-149 of the City's code of Ordinances in regards to street lighting along residential streets. Chapter 27-149 requires lighting to be installed at intersections of roads. The street light committee recommends that



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3 additional street lights be installed as shown in Exhibit B. The street lights are proposed to be 213 watt LEDs with full cutoff to improve light levels installed on the existing wood poles or new wood poles if needed. The estimated cost for to install these lights is \$4,500 and will be constructed as part of the annual Capital Improvement Project (CIP) E0052 Annual Street Light Additions for which funds have already been appropriated.

A request for increased lighting in the East Campus neighborhood had been received. After review, it was determined that the East Campus neighborhood is currently lit consistent with Chapter 27-149 of the City's code of Ordinances in regards to street lighting along residential streets. In April of 2016 the staff Lighting Committee recommended to Council that an external consultant review the need for additional lighting in the East Campus neighborhood. This issue was remanded to the Environment and Energy Commission which did not recommend contracting for services as the neighborhood has more street lights than is normal, compared to other neighborhoods. To satisfy the requests for additional lighting in the East Campus neighborhood, the street light committee recommends:

- Upgrading 36 existing mercury vapor street lights as shown in Exhibit C. The mercury vapor lights less than 175 watts will be replaced with 57 watt LEDs with full cutoff. The mercury vapor lights greater than 175 watts will be replaced with 213 watt LEDs with full cutoff.
- Measuring light levels, at representative locations, before and after the lighting upgrade and report this information back to Council. This information is intended to represent the impacts of this change and help guide the decision for future lighting improvements in in the East Campus neighborhood

The estimated cost for to install these lights is \$36,000 and will be constructed as part of the annual Capital Improvement Project (CIP) E0182 Mercury Vapor Street light Replacement for which funds have already been appropriated.

## Fiscal Impact

Short-Term Impact: The cost of the proposed street lights within the Water & Light Service Territory are \$4,500 to be charged to (CIP) E0052 and \$36,000 to be charged to (CIP) E0182. The cost of the proposed street lights within Boone Electric Service Territory is \$10.18 per month per light or \$122 annually.

Long-Term Impact: The cost of the proposed street lights within the Water & Light Service Territory is shared among all ratepayers. The cost of the proposed street lights within Boone Electric Service Territory is \$10.18 per month per light or \$122 annually.

## Strategic & Comprehensive Plan Impacts

### [Strategic Plan Impacts:](#)

Primary Impact: Infrastructure, Secondary Impact: Not Applicable, Tertiary Impact: Not Applicable

### [Comprehensive Plan Impacts:](#)



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Primary Impact: Infrastructure, Secondary Impact: Not applicable, Tertiary Impact: Not Applicable

## Legislative History

Date	Action
4/18/2016	R47-16 Authorizing the installation of a street light on the east side of Elderbrook Drive; authorizing the Purchasing Agent to request proposals for consulting services for an evaluation of street lighting levels in the East Campus neighborhood and a determination of the scope and costs associated with a lighting project.
7/5/2016	REP 57-16 Correspondence from the Environment and Energy Commission regarding East Campus lighting.

## Suggested Council Action

Staff recommends Council adopt a resolution for the installation of street lights as described above.