



Department Source: City Utilities - Water and Light

To: City Council

From: City Manager & Staff

Council Meeting Date: November 6, 2017

Re: Streetlight requests

Executive Summary

The staff Street Lighting Committee, which is comprised of staff from the City's Departments of Water & Light and Public Works, Office of Neighborhood Services, Police, and Office of Sustainability, has received seven requests for streetlights.

- 1) Increased lighting at the intersection of Cass Drive and Mohawk Avenue.
- 2) Installation of additional streetlights along West Broadway Street.
- 3) Increased lighting along Highlands Parkway north of Dunbar at the pedestrian crosswalk.
- 4) Increased lighting in the central city.
- 5) Installation of a streetlight near 200 East Burnam Road.
- 6) Installation of additional streetlights along Bold Venture Drive.
- 7) Installation of a streetlight at the intersection of Brown Station Road and Flatwater Drive and the installation of a streetlight at the intersection of Brown Station Road and Waco Road.

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

- 1) Approving the request for increased lighting by upgrading the existing streetlight at the intersection of Cass Drive and Mohawk Avenue.
- 2) Approving the request for additional streetlights by installing 3 streetlights along West Broadway Street.
- 3) Approving an upgrade of the existing streetlight along Highlands Parkway north of Dunbar at the pedestrian crosswalk.
- 4) Approving the request for increased Lighting in the central city by upgrading the 53 existing mercury vapor streetlights in the area.
- 5) Approving the request for additional streetlights by installing 1 streetlight along East Burnam Road.
- 6) Approving the request for additional streetlights by installing 2 streetlights along Bold Venture Drive.
- 7) Approving the request for additional streetlights by installing a streetlight at the intersection of Brown Station Road and Flatwater Drive and the installation of a streetlight at the intersection of Brown Station Road and Waco Road.



Discussion

A request for increased lighting at the intersection of Cass Drive and Mohawk Avenue has been received. After review, it has been determined that the intersection of Cass Drive 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 as shown in Exhibit A. The streetlight committee does not recommend the installation of additional lighting at the intersection of Cass Drive and Mohawk Avenue to maintain consistency with Chapter 27-149 of the City's code of Ordinances. The streetlight committee does recommend that the existing 100 watt HPS streetlight as shown in Exhibit A be upgraded to a 213 watt LED with full cutoff to improve light levels. This project 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 additional lighting along West Broadway Street west of Strawn Road has been received. After review, it has been determined that the lighting along West Broadway Street west of Strawn Road 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 intervals not to exceed four hundred (400) feet. The streetlight committee recommends that 3 additional streetlights be installed as shown in Exhibit B. The streetlights are proposed to be 213 watt LEDs with full cutoff to improve light levels installed on the existing or new wood poles if need. This project 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 along Highlands Parkway north of Dunbar at the pedestrian crosswalk has been received. After review, it has been determined that lighting along Highlands Parkway north of Dunbar at the pedestrian crosswalk is currently lit consistent with Chapter 27-149 of the City's code of Ordinances in regards to street lighting along residential streets as shown in Exhibit C. The streetlight committee does not recommend the installation of additional lighting along Highlands Parkway north of Dunbar at the pedestrian crosswalk to maintain consistency with Chapter 27-149 of the City's code of Ordinances. The streetlight committee does recommend that the existing 100 watt HPS coachlight as shown in Exhibit C be upgraded to a 213 watt LED with full cutoff to improve light levels. The streetlight is proposed to be a 213 watt LED streetlight mounted on a black standard. This project 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 central city has been received from the Columbia Police Department. The streetlight committee recommends approving the request for increased Lighting in the central city by upgrading the 53 existing mercury vapor streetlights as shown in Exhibit D. 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. This project will be constructed as part of the annual



City of Columbia

701 East Broadway, Columbia, Missouri 65201

Capital Improvement Project (CIP) E0182 Mercury Vapor Streetlight Replacement for which funds have already been appropriated.

A request for additional lighting along East Burnam Road has been received. After review, it has been determined that the lighting along East Burnam Road 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 intervals not to exceed four hundred (400) feet. The streetlight committee recommends that an additional streetlight be installed as shown in Exhibit E. The streetlight is proposed to be 57 watt LED with full cutoff to improve light levels installed on a new wood pole to match the infrastructure in the area. This project 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 additional lighting along Bold Venture Drive has been received. After review, it has been determined that the lighting along Bold Venture Drive 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 intervals not to exceed four hundred (400) feet. The streetlight committee recommends that two additional streetlights be installed as shown in Exhibit F. The requested street lights are located within Boone Electric Service Territory. The streetlights would be 100 watt high pressure sodium post-top-luminaires. Reoccurring costs would be \$11.65 per month per light or \$280 annually.

A request for additional lighting at the intersection of Brown Station Road and Flatwater Drive and the intersection of Brown Station Road and Waco Road has been received. After review, it has been determined that the intersection of Brown Station Road and Flatwater Drive and the intersection of Brown Station Road and Waco Road are 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 each intersection along residential streets. The streetlight committee recommends that additional streetlights be installed at the intersection of Brown Station Road and Flatwater Drive and the intersection of Brown Station Road and Waco Road as shown in Exhibit G. The streetlights are proposed to be 213 watt LEDs with full cutoff to improve light levels installed on the existing or new wood poles if need. This project will be constructed as part of the annual Capital Improvement Project (CIP) E0052 Annual Street Light Additions for which funds have already been appropriated.

Fiscal Impact

Short-Term Impact: The cost of the proposed streetlights within the Water & Light Service Territory is shared among all ratepayers. The cost of the proposed streetlights within Boone Electric Service Territory is \$11.65 per month per light or \$280 annually.

Long-Term Impact: The cost of the proposed streetlights within the Water & Light Service Territory is shared among all ratepayers. The cost of the proposed streetlights within Boone Electric Service Territory is \$11.65 per month per light or \$280 annually.



Strategic & Comprehensive Plan Impacts

[Strategic Plan Impacts:](#)

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

[Comprehensive Plan Impacts:](#)

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

Legislative History

Date	Action
None	None

Suggested Council Action

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