



CITY OF WASHINGTON, ILLINOIS
Committee of the Whole Agenda Communication

Meeting Date: 12-14-2020

Prepared By: Kevin Schone – Public Works Director

Agenda Item: Laser Electric Lighting Consideration

Explanation: City staff has been approached again by Laser Electric about improving the lighting at intersections where the City is responsible for maintenance. Laser completed repairs at BR24 and Cummings Lane in May of 2019 and 4 new LED fixtures and arms were installed. Laser has reported to me that any new fixtures included in these proposed improvements can be spared during any future BR24 upgrades.

The following is a list of intersections that the City is responsible for minus BR24 and Cummings.

IL 8 & Summit
IL 8 & School
IL 8 & McCluggage
BR24 & Freedom Parkway
BR24 & Centennial
BR24 & Wilmore
US24 & Cummings

Last year Laser included the eight city owned lights on Freedom Parkway when submitting pricing. These lights are not on IDOT ROW so I have asked for a separate price for these lights so that our local contractors might have a chance to quote this portion of the work. These lights are not included in this quote.

Fiscal Impact: The cost of the proposed improvements for the locations listed will be \$17,766.34. This budgeted expenditure would come from account #100-03-800-5000. Incentives will reduce this amount but will not be known until the project is completed.

Recommendation/

Committee Discussion Summary: From June of 2015 through December 31 2019 the City of Washington has paid out \$12,101.05 to Laser Electric for maintenance of the lighting at various intersections where the City has responsibility. This does not include \$4,504.44 that was spent to repair and improve the lighting at the intersection of BR24 and Cummings Ln in

May of 2019. The new lighting, if approved, will be more efficient and less problematic moving forward.

The benefit or ROI of these improvements come from reduced maintenance costs and warranty of parts. As an example, in May of 2018 Laser upgraded roughly 50% of the Village of Morton's street lights (450). At that point in May of 2018 Morton had spent nearly \$8,000 in maintenance for their lighting. After Laser did the upgrade the following year, May of 2019, Morton spent roughly \$2,000 and only had to replace (1) LED fixture which was struck by lightning.

Staff has reached out to Ameren to determine how the flat rate for street lighting can be reduced should the city covert more lighting. As of this writing I have not received a response. Until that is known the ROI is in reduction of maintenance cost.

The lighting industry is moving to LED luminaires LED (light emitting diode) because it is becoming the light source of choice; Reasons; Energy cost savings (high efficacy), Maintenance cost savings (no relamping & long life), Installation cost savings (???), Good light control (optical design), Better color rendering (from 25 to 70+), White light (2,500 – 6,500 degrees Kelvin), Instant on (no warm up or restrike time), Digital lighting allows for digital controls, Facilitates asset management, and Traditional HID luminaires like HPS are beginning to lose product support.

These improvements will also improve the safety of the traveling public.

Laser is the approved contractor for IDOT thus there would not be additional quotes or bidding for this project. This project has also been designed and approved by IDOT.

Action Requested: Consideration for moving this budgeted energy efficient project forward to City Council for approval.