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## CHARETTE MEETING MINUTES

**PROJECT:** City of Kirkwood - Street Lighting Engineering Services  
**SUBJECT:** Charette Meeting Minutes  
**PROJECT NO:** City 10121 / R&B 1682-01  
**MEETING DATE:** July 31, 2014  
**ISSUE DATE:** August 04, 2014  
**BY:** Paul Carmen/Aaron Eckhardt  
**PARTICIPANTS:** See attached sign in sheet

cc: Aaron Eckhardt, Paul Carmen, Mark Petty

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*The following minutes express our understanding of the items discussed during the City of Kirkwood, Street Lighting Engineering Services Presentation which occurred at 9:00AM on July 31, 2014.. Please respond in writing within five days of receipt if any changes are required.*

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1. Paul Carmen presented an overview of the City of Kirkwood business district and identified which streets we believed are good candidates for street lighting upgrades. This information was also printed and handed out to all meeting attendees.
2. Aaron Eckhardt presented the different types of lamps (sodium vapor, metal halide and LED) currently being used in today's exterior lighting market so the stakeholders would understand what lamps are currently being used and what options are available to become a more sustainable energy conserving City.
3. Aaron Eckhardt then presented our findings of the site investigations work identifying poles, luminaires, lamp types, etc. that are currently being used on each street that we believe are good candidates for street lighting upgrades. Aaron also identified what streets currently have adequate lighting levels and which streets do not meet the minimum recommendations published by Illumination Engineering Society of North America (IESNA).
4. Paul Carmen then presented the Pros and Cons of upgrading the City street lighting systems in the business district. A cost estimate was discussed for upgrading one typical block. It was stated this cost is the worst case scenario and this number really shouldn't be used for each block. R&B will provide a more detailed cost estimate with the final report.
5. R&B recommends the City use LED lamps as they burn twice as long as the sodium vapor and metal halide lamps and use half the energy. Also the LED lamps can be dimmed down to the minimum recommended IESNA light levels of .6 footcandles average after closing hours of all businesses saving even more energy.

6. The meeting was then opened up to the public for questions. The following is a list of items that were discussed:
  - a. It was discussed that each street may require a different approach as each street is different and unique.
  - b. Street priority recommended is as follows:
    - o North Kirkwood from Bodley to Adams. This was supposed to be done during the original street lighting project.
    - o Argonne Ave.
    - o Jefferson Ave.
    - o Adams Ave.
  - c. Possibly continuing the antique street lighting on North Kirkwood road to Manchester to accommodate the future development that is planned at Manchester and Kirkwood.
  - d. Reviewed options for holiday lights on Argonne Ave. Receptacles are needed in the ground below the trees to eliminate trip hazards that currently exist when lighting the trees on Argonne Ave. Paul Carmen said this is a possibility and we have a method for doing this as we designed similar systems for the City Garden downtown.
  - e. Concerns were mentioned about light trespassing into residential areas on Clay Ave. and Taylor Ave. R&B is to review the use of a special shielded lens that would limit this issue.
  - f. When new lighting poles are installed at intersections, review the possibility of adding street signs, traffic signs and informational signs to the new poles and removing the old sign support poles to clean up the intersections.
  - g. Providing adequate lighting for the streets is important and people will complain if we do not illuminate the streets adequately.
  - h. The use of lighting bollards was discussed to help illuminate sidewalks if needed.

# CITY OF KIRKWOOD - STREET LIGHTING CHARETTE

JULY 31, 2014

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