

# City of Columbia

701 East Broadway, Columbia, Missouri 65201



**Agenda Item Number:** R 164-15

**Department Source:** Parks and Recreation

**To:** City Council

**From:** City Manager & Staff

**Council Meeting Date:** 10/19/2015

**Re:** Activity and Recreation Center Lighting Improvements

## Documents Included With This Agenda Item

Council memo, Resolution

**Supporting documentation includes:** None

## Executive Summary

The Parks & Recreation Department is requesting Council authorization to proceed with lighting improvements at the Activity and Recreation Center (ARC). Park staff is proposing to replace the existing natatorium lights, gymnasium lights and a variety of other lights in the facility with energy-efficient LED lighting. The lighting improvements will include a mixture of fixture replacement, retro-fitting existing fixtures, and bulb replacement. The LED lighting upgrades will improve the visibility in the facility, reduce the overall energy consumption, and lower utility costs at the ARC. The lighting improvement project will have a budget of \$89,050 and will be funded using 2014 budget surplus funds. The conversion of the existing lights to LED lighting will result in an estimated annual utility savings of approximately \$24,000 when the project is completed at the facility. The project is also eligible for \$11,950 in rebates from the Columbia Water and Light Department's Lighting Incentive Program. The project will be bid through the City's Purchasing Department and will be completed using a combination of contract and force account labor. Lighting improvements are scheduled to begin in November, with an anticipated completion date of late spring 2016.

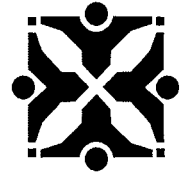
## Discussion

The Activity and Recreation Center (ARC) is located at 1701 West Ash Street and serves as the city's premier indoor recreation facility. Opened in 2002, the facility includes an indoor leisure pool, gymnasium, strength training equipment and weights, cardio equipment, and an indoor track. Multiple programs and classes are offered for members and visitors with a focus on group fitness classes, spin classes, water aerobics, swimming lessons and youth fitness classes. The ARC also serves as a warming and cooling center for the public.

In May 2015, ARC staff and park planning staff began discussions about possible improvements to the facility to reduce the overall utility usage and maintenance needs within the ARC. Staff focused on lighting, heating and air components, electrical controls for equipment and water usage. Working with a variety of vendors and city staff, it was determined that making lighting improvements throughout the facility would provide the biggest payback in terms of reducing utility usage and overall monetary expenses associated with utility costs.

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Utilizing 2014 budget surplus funds, park staff is proposing to convert existing lights throughout the facility to energy-efficient LED lighting. The areas of focus for the lighting improvements include the natatorium, gymnasium, and general lighting throughout the building. The lighting conversion in the natatorium and gymnasium provide the best opportunity for energy reduction and cost savings due to the size and quantity of lights, length of time in operation each day, and position of the lights in each area. The lights in these two areas of the ARC are hard to access for maintenance, so the lifespan of LED lighting will greatly reduce the time spent replacing bulbs by maintenance staff. Contract labor will be utilized to replace 39 Metal Halide fixtures in these two areas of the facility. The estimated reduction in electrical usage for each fixture will be from 1000 watts per Halide fixture to 250 watts per LED fixture. The remaining lights being proposed for replacement to LED bulbs include all light fixtures in the hallways of the building, maintenance rooms, and exterior can lights. ARC staff will complete the replacement or conversion of the 296 lights proposed in these areas. The replacement of these lights will include a variety of bulb replacements, retro-fitting existing lights, and replacement of entire lighting fixtures.

Park staff has worked closely with representatives from Columbia Water and Light to select the new LED lighting fixtures and develop a cost savings plan for the lighting improvements. The savings include rebates from the Water and Light Lighting Incentive Program totalling \$11,950, and it is estimated that the LED lighting improvements will result in an annual savings in utility costs of approximately \$24,000 at the facility.

The lighting improvements at the ARC will cost \$89,050 and are funded using 2014 budget surplus funds. The City Council approved the 2014 budget surplus projects as part of the FY2016 budget for the City of Columbia. The improvement project will be bid through the City's Purchasing Department and will be completed using a combination of contract and force account labor. The project is anticipated to start in November 2015 and be completed by late spring 2016.

## **Fiscal Impact**

**Short-Term Impact:** The total project cost for the lighting improvements is \$89,050 and will use 2014 budget surplus funds as the funding source. The project will also include \$11,950 in rebates from the Columbia Water and Light Department's Lighting Incentive Program for completing the conversion to LED lighting at the facility and reducing the total watts used at the facility. The rebate funds will be placed back in the project to complete additional lighting improvements at the facility.

**Long-Term Impact:** It is estimated that the conversion to LED lighting at the ARC will provide a cost savings of approximately \$24,000 each year in reduced utility expenses. The LED lights will also reduce daily, weekly and annual maintenance due to the low wattage use and longevity of the lights.

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## Vision, Strategic & Comprehensive Plan Impact

Vision Impact: Parks, Recreation and Greenways

Strategic Plan Impact: Not Applicable

Comprehensive Plan Impact: Livable and Sustainable Communities

## Suggested Council Action

Approve the resolution calling for a public hearing.

## Legislative History

None

  
\_\_\_\_\_  
Department Approved

  
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City Manager Approved

## A RESOLUTION

declaring the necessity for replacement of existing light fixtures in the natatorium, gymnasium, hallway, maintenance room and exterior areas of the Activity and Recreation Center (ARC) with energy efficient LED lighting; stating the nature of and the estimate of the cost of the improvement; providing for payment for the improvement; providing for compliance with the prevailing wage law; and setting a public hearing.

BE IT RESOLVED BY THE COUNCIL OF THE CITY OF COLUMBIA, MISSOURI, AS FOLLOWS:

SECTION 1. The City Council deems the replacement of existing light fixtures in the natatorium, gymnasium, hallway, maintenance room and exterior areas of the Activity and Recreation Center (ARC) with energy efficient LED lighting, necessary to the welfare and improvement of the City.

SECTION 2. The nature and scope of the improvement shall consist of furnishing all labor, materials, transportation, insurance and all other items, accessories and incidentals thereto necessary for the complete construction of the improvements.

SECTION 3. The estimated cost of this improvement is \$89,050.00.

SECTION 4. Payment for this improvement shall be made from FY 2014 budget surplus funds and such other funds as may be lawfully appropriated. The project will be eligible for \$11,950.00 in rebates from City's Water and Light Department lighting incentive program.

SECTION 5. Any work done in connection with the construction of the improvement specified above shall be in compliance with the provisions of the prevailing wage laws of the State of Missouri.

SECTION 6. A public hearing in respect to this improvement will be held in the Council Chamber of the City Hall Building, 701 E. Broadway, Columbia, Missouri, at 7:00 p.m. on November 2, 2015. The City Clerk shall cause notice of this hearing to be published in a newspaper published in the City.

ADOPTED this \_\_\_\_\_ day of \_\_\_\_\_, 2015.

ATTEST:

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City Clerk

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Mayor and Presiding Officer

APPROVED AS TO FORM:

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City Counselor