


## COUNCIL COMMUNICATION

	Number:	<b>21-054</b>	Meeting:	<b>February 8, 2021</b>
	Agenda Item:	<b>7C</b>	Roll Call:	[ ]
	Submitted by:	<b>Benjamin R. Page, Park and Recreation Director and Steven L. Naber, P.E., City Engineer</b>		

### AGENDA HEADING:

Ordering construction of the following: Women of Achievement Bridge Lighting Improvements - Receiving bids, (2-23-21), and Setting date of hearing, (3-22-21). Construction Estimate - \$165,000.

### SYNOPSIS:

Recommend the City Council order construction of the improvement and set dates to receive bids and hold a public hearing, as required by Iowa Code, utilizing the method of financing referenced below. The project provides for electrical and lighting improvements to address performance and maintenance issues with the existing lighting for the Women of Achievement Bridge. This improvement includes new floodlighting systems to illuminate underside of the arch and new lighting at center walkway, which are located to provide easier and safer access. The Light Emitting Diode (LED) lighting fixtures will have color changing capabilities for the Women of Achievement Bridge.

### FISCAL IMPACT:

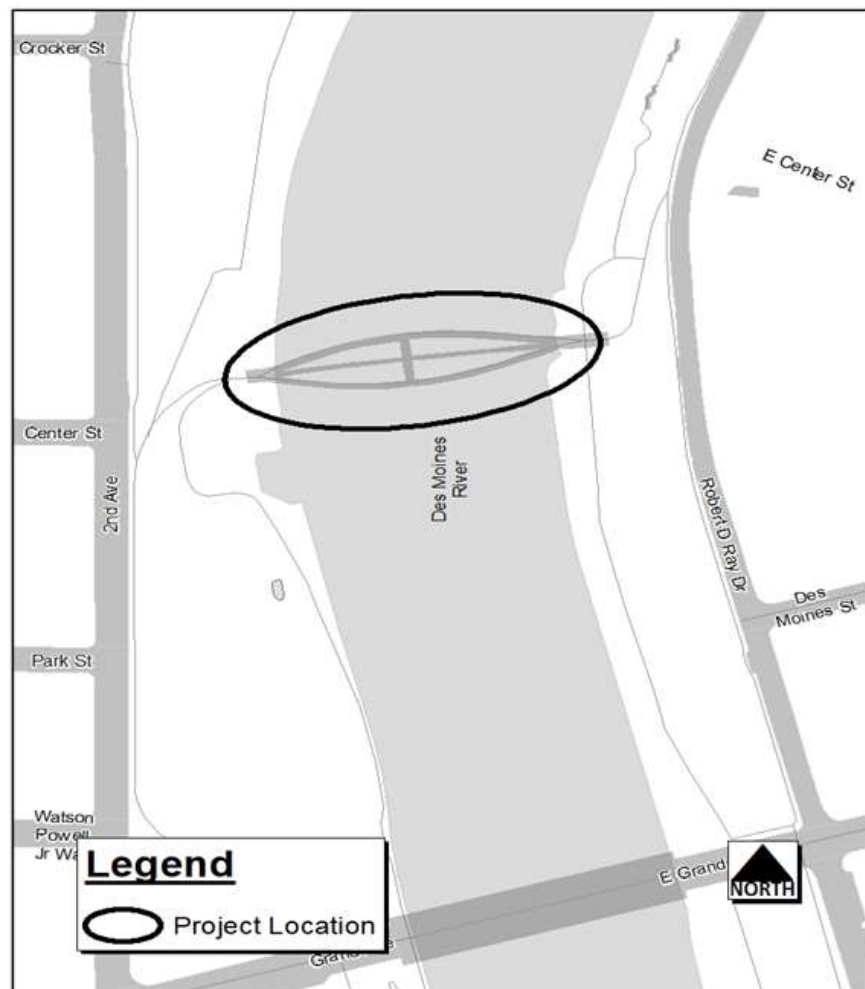
Amount: \$165,000 City Engineer's Estimate

Funding Source: 2020-2021 CIP, Page Park – 16, Park Infrastructure, PK175, G.O. Bonds to be issued.

### ADDITIONAL INFORMATION:

- The Engineering Department has prepared plans, specifications, form of contract documents, and City Engineer's estimate for the construction of the Women of Achievement Bridge Lighting Improvements, 11-2021-001. The improvement includes new LED floodlighting systems, new LED lighting at center walkway, new electrical connections, and new control system; all in accordance with the contract documents, including Plan File Nos. 604-304/318, located on the Women of Achievement Bridge over the Des Moines River at Center Street.
- The estimated construction cost is \$165,000. The proposed plans, specifications, and form of contract documents are available for public inspection in the Des Moines City Engineer's Office.

- The project uses LED fixtures, which provide more light output per watt than older lighting technologies. This improved performance also enables the use of RGB (i.e., Red-Green-Blue) color-changing fixtures, which require more power than white-only fixtures, for lighting the arch and the center span of this iconic bridge.
- The original glass panels along the center walkway were replaced with metal grating in 2020, after repeat incidents of breakage. That replacement improved safety and long-term maintenance but had the effect of diminishing the color-changing appearance along the center span. This project recaptures color-changing capability at the center span, in keeping with the original design intent.
- Access to existing floodlight fixtures for maintenance and repair requires special equipment, water presence of emergency personnel, and compliance with stringent safety measures due to the location of the fixtures over the river and near a low-head dam. By relocating the floodlights and designing a pivoting bracket, this project provides a means of maintaining the fixtures from the bridge deck, without the risk and additional safety procedures required by the current floodlight locations.
- Construction of this project is anticipated to start late spring 2021 and be complete by late summer/early fall 2021.



**PREVIOUS COUNCIL ACTION(S): NONE**

**BOARD/COMMISSION ACTION(S): NONE**

**ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:**

Anticipated actions include public hearing, receive and file bids, designate lowest bidder, and approve contract and bond; also, partial payments to the contractor and final acceptance of work.

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