


## COUNCIL COMMUNICATION

 CITY OF DES MOINES OFFICE OF THE CITY MANAGER	Number:	<b>19-026</b>	Meeting:	<b>January 28, 2019</b>
	Agenda Item:	<b>8</b>	Roll Call:	<b>19-115</b>
	Submitted by:	<b>Steven L. Naber, P.E., City Engineer</b>		

### AGENDA HEADING:

Approving and authorizing the execution of Iowa Department of Transportation (IDOT) agreements for 2nd Avenue bridge over the Des Moines River rehabilitation and 2nd Avenue bridge over Birdland Drive replacement.

### SYNOPSIS:

Recommend approval of IDOT agreement numbers 1-18-HBP-SWAP-039 and 1-18-STBG-SWAP-051 for 2nd Avenue bridge over the Des Moines River rehabilitation and 2nd Avenue bridge over Birdland Drive replacement. This project consists of bridge rehabilitation and overlay of the 2nd Avenue bridge over Des Moines River and full replacement of the 2nd Avenue bridge over Birdland Drive.

### FISCAL IMPACT:

Amount: \$5,900,000

Funding Source: Various funding being:

- \$1,000,000: IDOT Highway Bridge Replacement and Rehabilitation (HBRR) Program SWAP Funds
- \$1,000,000: IDOT Surface Transportation Program SWAP Funds
- \$3,900,000: 2018-2019 CIP, Page Bridge and Viaduct Improvements-12, 2nd Avenue bridge over Des Moines River, BR057, G.O. Bonds to be issued

### ADDITIONAL INFORMATION:

- 2nd Avenue is a minor arterial with an average traffic volume of 18,600 vehicles per day. This roadway also serves as a north-south connection for Ankeny, Polk County, and north Des Moines to downtown Des Moines.
- The 2nd Avenue bridge over the Des Moines River was constructed in 1935, and widened in 1985. This bridge is potentially eligible for historic designation.
- The 2nd Avenue bridge over Birdland Drive was constructed in 1936, and altered and widened in 1986.

- A structural engineering consultant looked at the following options for the two (2) 2nd Avenue bridges:
  1. Rehabilitate both bridges, estimated to cost \$4.2 million.
  2. Rehabilitate the 2nd Avenue bridge over Des Moines River and replace the 2nd Avenue bridge over Birdland Drive, estimated to cost \$5.9 million.
  3. Replace both bridges with one (1) bridge, estimated to cost \$16.6 million.
  4. Replace both bridges with two (2) bridges, estimated to cost \$15 million.
- Rehabilitation of the 2nd Avenue bridge over the Des Moines River would provide an estimated additional service life of 25 years. Rehabilitation of the 2nd Avenue bridge over Birdland Drive would provide an estimated additional service life of 10-15 years. New (replaced) bridges typically have a service life of 50 years.
- Based on the structural condition of the bridges and estimated costs and service life, City staff and the structural engineering consultant recommend proceeding with the rehabilitation of the 2nd Avenue bridge over Des Moines River and replacement of the 2nd Avenue bridge over Birdland Drive, estimated to cost \$5.9 million. Rehabilitation of the 2nd Avenue bridge over Des Moines River will include the repair and overlay of the concrete deck slab, corrosion protection, repair of structural steel members, and replacement of barrier rails and hand rails.
- The City was awarded \$1,000,000 in Surface Transportation Program funding from the City's federal Fiscal Year (FY) 2018 application submitted in 2013. The Iowa Transportation Commission approved the Swap Policy, the allowance of local government entities to exchange federal-aid funds at its February 13, 2018 meeting. The Swap Policy allows local governmental entities to exchange federal-aid funds, which typically have more administrative restrictions and requirements for state funds, which are less restrictive, for use on transportation projects. The Surface Transportation Block Grant (STBG) Program, formerly the Surface Transportation Program, is one (1) of the programs included as part of the federal-aid swap for state funds; therefore, the 2nd Avenue bridge rehabilitation is considered a Swap Project.
- On August 17, 2018, the City was awarded \$1,000,000 in federal-aid Swap funding through the IDOT HBRR Program.



**PREVIOUS COUNCIL ACTION(S):**

Date: November 18, 2013

Roll Call Number: [13-1776](#)

Action: [Authorizing](#) submittal of STP and TAP Fund FY 2018 Applications to the Des Moines Area Metropolitan Planning Organization. ([Council Communication No. 13-554](#)) Moved by Coleman to adopt. Motion Carried 6-0.

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

**ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:**

To include ordering construction 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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