

Office of the City Engineer

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April 10, 2014

Legistar Item: 14-10020

To: Sandy Weidner, Chairman
Public Works and Services Committee

From: John Rooney *JCR*
Assistant Commissioner of Public Works/City Engineer

Re: State/Municipal Agreement for the Memorial Drive Bridge Project,
State Project ID: 2703-00-01/71

We have received a State/Municipal Agreement for the Memorial Drive Bridge Project, State Project ID: 2703-00-01/71.

The Memorial Drive Bridge (P-51-0705) is classified as structurally deficient with an NBI rating of 3 for the condition of the bridge deck. The bridge is on the 2013 NBI list and it has NBI ratings of 5 for the superstructure and structural evaluation. It measures 192 ft. long and 40 ft. wide with three spans. Two spans cross over the Root River and the northern span crosses the Root River Pathway. The bridge, built in 1936, is a concrete spandrel arch bridge. Sidewalks and bicycle/pedestrian facilities are present and designated as part of the regional system. A railroad facility runs parallel to the bridge and is within 1,000 ft. of the project termini.

The current state of the bridge requires rehabilitation. The bridge qualifies for rehabilitation with a sufficiency rating of 64.1. The concrete overlay has map cracking and is approximately 20% delaminated. Spalling is present on multiple areas of the structure: sidewalks, underside of arch, spandrel bents, and substructure units. Bloom Companies, LLC., on behalf of the City of Racine, submitted a bridge rehabilitation report in January 2013, with the Wisconsin Department of Transportation Bureau of Structures approving it on April 30, 2013.

The proposed work is a deck overlay on the existing structure. Areas of concrete spalling will also be repaired to extend the useful life of the bridge. Approach work includes 75 ft. of 40 ft. wide asphalt pavement and asphalt shoulders on both the north and south approaches. The total project length will be 350 ft. Minor scour concerns will be investigated during the design phase.

The estimated cost of this project is \$523,720.00, with the City's share being \$105,544.00 and the State's share being \$418,176.00. The City share will be provided for in the 2015 – 2024 Capital Improvement Plan budget.

If the Committee agrees, the appropriate action would be to approve the agreement and authorize the City Engineer to enter into the agreement.

JCR:njp

Cc: Joy Hansche
File