



## Request for City Council Committee Action From the Department of Public Works

**Date:** August 23, 2011  
**To:** Honorable Sandra Colvin Roy, Chair Transportation & Public Works Committee  
**Referral:** Honorable Betsy A. Hodges, Chair Ways & Means Committee  
**Subject:** **Plymouth Avenue N Bridge over the Mississippi River**

### Recommendation:

- a) Authorize and direct the proper City Officers to amend the 2011- 2015 Five Year Capital Program & Fixing of the 2011 Expenditures (Resolution N°. 2010R-599) by: adding CBR125 Plymouth Ave N River Bridge project; increasing the funding appropriation to the Bridges Capital Program (04100 9010938) in the amount of \$6,145,528 for CBR125; and increasing Minnesota Department of Transportation (MnDOT) revenue source 321510 (04100 9010938) by \$6,145,528 for CBR125.
- b) Authorize the acceptance and expenditure of \$2,145,528 from the MnDOT Municipal Sate Aid (MSA) Disaster funds for CBR125.
- c) Authorize the acceptance and expenditure of \$4,000,000 of MnDOT State Bridge Bonds for CBR125.
- d) Approval of Contract Amendment #2 for Plymouth Avenue River Bridge Consulting Services Standard Agreement in the amount of \$55,000.

### Previous Directives:

- Council Action (December 17, 2010) Amending the 2011 Legislative Agenda by adding the Plymouth Avenue River Bridge as project priority number 1
- Council Action (December 10, 2010) Authorization to amend the Consulting Services Standard Agreement with Corven Engineering increasing the total compensation and extending the contract termination date to the end of 2011

**Prepared by:** Jack Yuzna, P.E., Principal Project Engineer, 673-2415

### Approved by:

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Steven A. Kotke, P.E., City Engineer, Director of Public Works

**Presenters:** Jack Yuzna, P.E., Principal Project Engineer,  
Department of Public Works, Transportation Planning & Engineering Division

### Reviews

Permanent Review Committee (PRC):	Approval	NA	Date
Civil Rights Affirmative Action Plan	Approval	NA	Date
Policy Review Group (PRG):	Approval	NA	Date

### Financial Impact

Action is within current department budget

## **Community Impact**

Neighborhood Notification: Not Applicable

City Goals: The city's infrastructure will be well-maintained, people will feel safe in the city.

Comprehensive Plan: Not Applicable

Zoning Code: Not Applicable

## **Background/Supporting Information**

Since the Plymouth River Bridge was closed to traffic late last year, Public Works has been working to understand the scope of repair work needed and secure funding to return the bridge to service.

The department's consultant, Corven Engineering, has made three field inspections and completed computer modeling of the bridge's original "opening day" and its current "reduced" load capacities. This work has refined the design of the repairs and engineer's estimate. Initial repair estimates placed the cost at between \$7 million to \$10 million. The computer modeling and structural analysis found that the bridge was very robust when built. The later field investigation also found that damage to the four outside spans was not as broad/extensive as initially thought. These findings have resulted in a reduction to the scope of repairs needed to return the bridge to full service and reduced the project cost estimate to \$6,000,000.

As the technical work progressed, efforts to secure the funding were also moving forward. The City Council made funding for the repairs its top priority for 2011 at the State Legislature. Concurrent with this initiative, in February Public Works sought and received \$2,145,528 MSA Disaster funds from MnDOT to aid in funding the repairs. While the legislative initiative slowed due to the difficulties with the State Budget, the department was recently informed that the Council's efforts had been successful and we would be receiving an additional \$4,000,000 of State Bridge Bonds to help fund the repairs. With the addition of the bridge bonds Public Works now has the necessary funding to award a bridge repair contract.

Completion of the bid documents is currently underway and will need to be submitted to MnDOT for review and approval. We anticipate to have authorization to advertise for bids this fall but may elect to wait if it appears the bid environment will be optimal in December. It is Public Works intention to award the contract and issue notice to proceed such that the contractor will be able to start work as early as spring weather permits. Construction is anticipated to be completed in 3 to 4 months after which the bridge will be opened to all traffic.

After discussions with MnDOT's Bridge Office, Public Works has concluded that the repair work should be bid as a Construction Management (CM) project. As a CM project the repair work will be bid as several specialized contracts and will be managed by the Department and our consultant. This will provide better control of the project cost as concrete removal progresses and the bridge deterioration is uncovered. Given their expertise in the field of post-tension concrete bridges, Public Works request authorization to negotiate with Corven Engineering to provide the Construction Management services for this project.

## **Contract Amendment #2 for Plymouth Avenue River Bridge Consulting Services**

The third field investigation was not originally anticipated in the scope of work for Amendment #1 of the Corven Engineering contract. Public Works requests authorization to execute Amendment #2 the Standard Agreement with Corven Engineering by increasing their compensation by \$55,000 (total contract amount \$305,000.00).

Attachments Map

cc: CM Hofstede, Ward 3  
CM Samuels, Ward 5  
CM Goodman, Ward 7

# Plymouth Avenue Bridge Map

