



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

Date: November 30, 2010
To: Honorable Sandra Colvin Roy, Chair, Transportation & Public Works Committee
Referral: Honorable Betsy A. Hodges, Chair, Ways & Means Committee
Subject: **Plymouth Avenue River Bridge Consulting Services Agreement**

Recommendation:
Approval of Contract Amendment for Plymouth Avenue River Bridge Consulting Services Standard Agreement for an amount not to exceed \$250,000

Previous Directives:
None

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

Approved by:

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

The Plymouth River Bridge crossing was closed to traffic in October due to the discovery of corroded post-tension (P-T) tendons found during routine maintenance. The bridge was built by the City in the early 1980's and was the first post-tension segmental box girder in the State.

Public Works sought assistance from MnDOT and other local consulting firms to ascertain the extent of corrosion. Though MnDOT was very helpful and willing to assist, it became quickly apparent that the problem required a firm that specialized in P-T corrosion and that the expertise was not available from local consulting firm offices. Corven Engineering was strongly recommended as a leader in the field.

Corven Engineering was contacted on October 19 and quickly agreed to fly in that week to perform an inspection of the bridge. Based on the inspection findings and consultation with MnDOT's Bridge Office, Public Works closed the bridge to traffic on Friday, October 22. Corven's work was done under a City's "Standard Agreement" contract.

With the immediate issue of public safety addressed, Public Works recommends that a three phase approach be utilized in resolving the problem:

1. Bridge Evaluation Phase
2. Bridge Rehabilitation and Design
3. Construction of the Bridge Rehabilitation

The Evaluation Phase will provide Public Works with a monitoring program to provide the department's bridge safety inspectors and maintenance staff guidance on where and how to monitor for structural distress in the bridge; an initial structural analysis using two & three dimensional computer modeling to better understand the current state of stress in the bridge; and a visual evaluation of post-tensioning tendons utilizing a Borescope video camera to view the condition of the post-tensioning strand.

The second phase would be to develop Bridge Rehabilitation Design and Plans. Various options for rehabilitating the bridge would be considered and would include long term maintenance strategies. The selected option would be incorporated into the computer modeling, bid documents developed and a new bridge load rating produced. Public Works believes having bid documents will assist with efforts to obtain outside funding to assist with the rehabilitation.

The final phase would be Construction of the Bridge Rehabilitation.

Since the closure, Public Works directed Corven Engineering to begin the Bridge Evaluation Phase. Corven has much of the computer modeling completed and has completed the visual evaluation of post-tensioning tendons. The Bridge Evaluation Phase is anticipated to be completed by mid-December. Public Works will be reporting back to the City Council after the Evaluation Phase. Once the first phase is completed, Corven would move forward on the Bridge Rehabilitation Design and Plans.

Since the value of work will exceed the contractual limit for the City Standard Agreement and given the urgency of the findings, Public Works sought and received an exemption from the Permanent Review Committee to continue contracting with Corven Engineering without the normal Request for Proposals requirement. Therefore, Public Works request authorization to amend the Standard Agreement with Corven Engineering by increasing the total compensation under the contract to an amount not to exceed \$250,000.00 and extending the contract termination date to December 31, 2011. This action is sufficient to complete the Bridge Evaluation Phase and the Bridge Rehabilitation Design and Plans portions of the project.

Attachments Map

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