



	Approved	Denied
Action taken	1/23/06	
Other:		
Verified by:	[Signature]	

**WASILLA CITY COUNCIL ACTION MEMORANDUM**

**AM No. 06-07**

**TITLE: CONTRACT AMENDMENT TO RAVEN ENGINEERING, INC. IN THE AMOUNT OF \$75,000 FOR THE GARDEN TERRACE WATER MAIN PROJECT**

Agenda of: January 23, 2005  
 Originator: Public Works Director

Date: January 16, 2006

Route to:	Department	Signature/Date
	Police	
	Recreational and Cultural Services Library, Museum	
X	Public Works Planning	[Signature] 1/16/06
X	Finance *signature required	[Signature] 1/16/06
X	Clerk	[Signature]

**REVIEWED BY MAYOR DIANNE M. KELLER:** [Signature]

**FISCAL IMPACT:**  yes \$75,000 or  no      Funds Available  yes  no  
 Account name/number: 320-4369-436.45-35      Garden Terrace ADEC Grant

Attachments: Sample contract

**SUMMARY STATEMENT:** Raven Engineering was awarded this project as a result of a Request For Proposal (RFP) the City issued in November 2004. Council awarded the initial contract in 2005 in the amount of \$90,000 to design the water main extension with one underground Pressure Reducing Valve (PRV) vault and to use existing rights-of-way for the pipeline route. The contract extension is requested to complete the project design with additional scope added to the project.

Early in the design process, Raven Engineering determined that a substantial construction savings could be obtained by avoiding the existing rights-of-way and having to re-pave portions of Old Matanuska Road and Fairview Loop. Raven has since worked with property owners along the route to obtain easements outside of the

right-of-way and away from the pavement. This effort expended a significant amount of design funding that will save money on the overall project.

Raven Engineering was also requested to conduct a hydraulic analysis of the Richmond Hills Booster Station that was not included in the original scope. The Richmond Hills booster station provides water pressure to all services east of the Cottonwood Creek Plaza. The analysis was needed to determine what long-term limitations might be needed on pipeline extensions east along the Parks Highway.

Lastly, a single underground PRV vault was originally specified for the project to ensure excessive pressure does not develop to users downhill from the booster station. Further analysis has determined that two PRV structures will be needed along the route to step down pressure. In addition, the savings expected from not having to rebuild the paved roads discussed above, allows for the underground PRV vaults to be designed as above ground buildings. Above ground facilities are safer for the utility to operate, but does require additional engineering and architectural services vs. an underground vault.

In summary, the contract amendment is needed for engineering scope that was added to the project for an improved route that avoids the disruption pavement, a hydraulic analysis of the Richmond Hills Booster Station, and for the design of two PRV buildings.

**STAFF RECOMMENDED ACTION:** Council is requested to authorize the contract amendment to Raven Engineering, Inc. in the amount of \$75,000 for the Garden Terrace Water Main Project.