

	Approved Denied
Date Action Taken:	5/14/07
Other:	
	0
Verified by:	Komiks

## WASILLA CITY COUNCIL ACTION MEMORANDUM

AM No. 07-23

TITLE:

CONTRACT AMENDMENT TO RAVEN ENGINEERING IN THE AMOUNT OF \$37,934 FOR THE GARDEN TERRACE WATER MAIN EXTENSION ENGINEERING SERVICES.

Agenda of: May 14, 2007

Originator: Public Works Director

Date: May 2, 2007

Route to:	Department	Signature/Date
	Police Chief	
	Youth Court, Dispatch, Code Compliance	
	Culture and Recreation Services Director Library, Museum, Sports Complex	
X	Public Works & Recreation Facility Maintenance Director	5/2/07
Х	Finance, Risk Management & MIS Director Purchasing	Dusan Elollisan 5-7-07
Х	Deputy Administrator Planning, Economic Development, Human Resources	S. Hay 2 06712-07
Х	City Clerk	Komites

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REVIEWED BY I	MAYOR [	DIANNE M. KELLER:			Del 5/8	107
FISCAL IMPACT Account name/nu	∵⊠ yes s ımber:	\$37,934 <i>or</i> $\square$ no Full Garden Terrace-City/ 3: Garden Terrace-State/	20-4369-436.4 320-4369-436	\$5-25 \$2 .45-35 \$1	2,656 18,967	
Attachments: Cor	ntract Am	:3 /Garden Terrace-Fed endment Cost Breakdow	20-4369-436.4 vn	15-36 \$1	16,311	

**SUMMARY STATEMENT:** The City Council has authorized \$165,000 to Raven Engineering to date for engineering design services for this project through AM 05-02 in January 2005 and AM 06-07 in January 2006. The City Council has also authorized \$72,000 for construction administration and inspection to Raven Engineering for this project through AM 06-47. Phase 1 of the project is under construction and nearing completion that consists of two Pressure Reducing Valve (PRV) buildings and associated yard piping. Phase 2 design is also nearing completion that consists of approximately 1.4 miles of main line piping between the PRV buildings.

The proposed contract amendment provides for \$12,000 to complete the Phase 2 design and \$25,934 to complete Phase 1 construction administration and inspection.

The Phase 1 project construction cost is \$1,433,296 and the Phase 2 construction cost is estimated at \$2.5 million. The combined project cost is estimated at \$3.9 million. Typically, engineering design costs range from 7 to 9 percent of the construction cost that equals \$273,000 to \$351,000 in this case. With the proposed amendment added, the total design contract will be \$177,000 or approximately 5 percent of the construction estimate.

Typically, construction administration and inspection cost range from 9 to 12 percent of the construction cost that equals \$128,996 to \$171,995 for Phase 1 of the project. With the proposed amendment added, the total construction administration and inspection contract for Phase 1 will be \$100,934 or approximately 7 percent of the construction cost for Phase 1.

**ACTION:** Authorize the Mayor to execute a contract amendment with Raven Engineering in the amount of \$37,934 for Garden Terrace Water Main Extension Engineering Services.

Garden Terrace Water Main Design

and
Old Mat Road and Garden Terrace Water Lines and PRV Buildings Construction
Raven Engineering Inc. Additional Funds to Complete Project

<u>Task</u> Complete Design: Add tree lines	Hours 12						
Complete field work Check & correct design drawings	6 40						
Complete traffic control plans	12						
Complete specifications	20						<del></del>
Complete bid schedule	40						
Assemble Project Manual	10						
Prepare Engineer's Estimate	1						
REI total fees	15	150 F	Hours @ \$75.00/Hour =	=	S 6		
REI expenses				A 6	200		
Weld procedures (QAS)			~1		- 1		
Design subtotal					9 12,000		
Complete Water Line & PRV Bldg Construction							
REI civil/mechanical construction admin (SMM)	ĕ	_			50		
REI civil/mechanical construction admin (SMM)	က		Months @ \$9,000/Month (May, June, & July 2007) =	\$ 27,000	0 i		
Electrical construction admin (LE&C)					<b>4</b> 5		
Testing (MHPE)					0 20		
Welding QC (QAS)					3 6		
Replace astragals (AKG&D)					40		
Contingency			1	0,1	000,		
Construction subtotal					\$ 33,979	1	
Total to complete decian & construction						↔	45,979
Finds available on 4/1/07						ક્ક	(8,045)
Additional Funds Needed						\$	37,934
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