



ST. CHARLES
SINCE 1834

AGENDA ITEM EXECUTIVE SUMMARY

Title: Recommendation to Award Valve Operating and Leak Survey Services

Presenter: John Lamb

Please check appropriate box:

	Government Operations	X	Government Services 03.25.13
	Planning & Development		City Council

Estimated Cost:		Budgeted:	YES	X	NO	
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If NO, please explain how item will be funded:

Executive Summary:

The Water Division conducts a valve operating program and a leak detection and location survey on an annual basis. The valve operating program involves the exercising and maintenance of the 3,300 valves in the distribution system. A leak detection survey is conducted to determine number and size of leaks in the system to identify unaccounted water loss. They also respond to main break situations when a break cannot be located.

Both of these services are performed by outside contractors, due to time factors and equipment involved. In the past these services were contracted separately and were three-year service agreements. This year staff combined the two services into one request for proposal in an effort to possibly reduce costs of the programs. The result of combining contracts is saving approximately \$7,500 over three years with the valve program and holding costs on leak survey. There is also savings in staff administrative costs due to issuing only one RFP and administering one less contract through the year.

Staff sent out a request for proposals and received three proposals in response. After review of proposals, staff recommends awarding a three-year service agreement to Associated Technical Services (ATS) in the amount of \$207,514.08. Staff checked references on both ATS and Wachs and found more favorable responses for ATS. Staff currently has a positive working relationship with ATS.

Attachments: *(please list)*

Resolution Authorizing Mayor and Clerk to Execute.
Summary of vendor proposals and costs

Recommendation / Suggested Action *(briefly explain):*

Recommend approval to award a three-year service agreement in the amount of \$207,514.08 to Associated Technical Services and a Resolution authorizing the Mayor and City Clerk to execute same.

For office use only

Agenda Item Number: 4.f

Water Division combination Valve Operating and Leak Survey proposal review

Quote Received from:		Leak Survey Cost	Valve Operating	Yearly Total	Running Total
Associated Technical Services	Year One	\$ 19,863.36	\$ 46,373.00	\$ 66,236.36	\$ 66,236.36
	Year Two	\$ 19,863.36	\$ 48,721.00	\$ 68,584.36	\$ 134,820.72
	Year Three	\$ 19,863.36	\$ 51,069.00	\$ 70,932.36	\$ 205,753.08
Wachs Water Services	Year One	\$ 23,548.31	\$ 44,025.00	\$ 67,573.31	\$ 67,573.31
	Year Two	\$ 24,060.00	\$ 44,612.00	\$ 68,672.00	\$ 136,245.31
	Year Three	\$ 24,572.00	\$ 45,199.00	\$ 69,771.00	\$ 206,016.31
M. E. Simpson Co.	Year One	\$ 25,080.00	\$ 44,612.00	\$ 69,692.00	\$ 69,692.00
	Year Two	\$ 25,080.00	\$ 45,786.00	\$ 70,866.00	\$ 140,558.00
	Year Three	\$ 25,080.00	\$ 46,960.00	\$ 72,040.00	\$ 212,598.00

WATER SYSTEM DATA

The City of Saint Charles Water Distribution System has 228 lineal miles (1,203,840 lineal feet) of primarily 4" to 16" PVC, Gray Cast Iron and Ductile Iron Water Main. St. Charles receives its water from Lake Michigan via the Du Page Water Commission. The water system also contains ± 2,800 Fire Hydrants and ± 3,524 Mainline Valves. The water system serves a population of ± 18,352 residents through ± 4,900 metered residential and commercial water services.

ESTIMATE OF COST

Comprehensive Valve Exercising Program Proposal

3,524 Valves Total to be Serviced and Assessed

Year 1: \$ 39.50 per valve – Quantity determined by City

Year 2: \$ 41.50 per valve – Quantity determined by City

Year 3: \$ 43.50 per valve – Quantity determined by City

NOTE: Unit costs for the each exercised and assessed valve will not change if there are more or less valves operated in any given year of the program. Minimum quantity 500 units per year.

** Free Leak Detection Survey - ATS will ultrasonically monitor every "assessed" mainline valve for leak sounds and log all detected leak data at no extra cost. Valves are your highest quality listening point. This represents up to a \$ 18,150.00 value. This price does not include leak pinpointing, which is priced separately at a discounted rate in the leak survey section of this proposal. There is no obligation for the City to pinpoint any leaks that we detect. However, we are almost certain to detect some nice leaks whose detection and repair will save the City a lot of money and water.*

COMPLETION TIME OF FIELD OPERATIONS: Without knowing how many valves will be designated during a given year, or require more than basic locating, or how many "difficult" valves will require more than typical exercising, we estimate that VALVE EXERCISING PHASE can be completed in approximately 60 days after receiving official notice to proceed. We are prepared to initiate the project shortly after receiving your approval to start. The **Final Report** will be submitted to you within 90 days of the completion of the field work portion of the project in the formats that you specified. We average between 15 – 20 Valves per day.

INITIATING THE PROJECT: Your verbal authorization is all that we need to schedule your *Pre-Survey Meeting*. Your **Purchase Order** and / or a signed *ATS Service Contract* will serve as official approval. The Pre-Survey Meeting details all aspects of the project. We will discuss how the project will be performed, how to interpret the project's documentation and the type of assistance and mutual cooperation that will be required during the survey. All Field and Administrative Personnel with an involvement in the project are encouraged to attend.

BASIC SCHEDULE OF PRICES

LEAK DETECTION & LOCATION SURVEYS

(Survey Area to be defined by Owner)

1. Minimum Leak Survey - 10,000 Lineal Feet of Water Main = \$ _____

1a. Survey Areas over 10,000 Lineal Feet of pipe will be priced as follows:

<u>More than</u>	<u>But less than</u>	<u>Unit Price Per Lineal Foot</u>
10,000 LF	19,999 LF	\$ _____
20,000 LF	39,999 LF	\$ _____
40,000 LF	59,999 LF	\$ _____
60,000 LF	79,999 LF	\$ _____
80,000 LF	99,999 LF	\$ _____
100,000 LF	or More	\$ <u>0.0165</u>

1b) LOCATION:

\$ 325.00 for every Main Line or Service Line Leak.

\$ 95.00 for every Fire Hydrant Leak and Valve Packing Leak.

2. MOBILIZATION & MILEAGE: - MILEAGE IS WAIVED

A) \$ 1.75 per mile under 50 miles - round trip

B) \$ 2.00 per mile over 50 miles and up to 100 miles - round trip

C) \$ 2.25 per mile over 100 miles - round trip

TERMS: Payment is due upon receipt of invoice. *ATS* will, at its option, submit periodic billings based upon the percentage of completion of the project. *ATS* also reserves the right to determine the percentage of completion for billing purposes. Interest rates will be based at 2% per month upon the unpaid balance at 30 days from the date of the invoice and thereafter.

PLEASE NOTE: All prices are based upon utmost cooperation and advance preparation by the **Owner**. Such as accurate plans and knowledge of the water system, and making all needed appurtenances accessible to our survey crews. See Section II of the attached "General Conditions for Leak Surveys" for a detailed listing of responsibilities of *ATS* and the **Owner**. *ATS* reserves the right to adjust the "Basic Schedule of Prices" if preliminary field investigation of the survey reveals extraordinary, hazardous or otherwise adverse conditions.

Please be sure to forward any questions directly to Ralph L. Gross at 630.834.1558 (ofc)

City of St. Charles

Valve Operating and Leak Detection & Location Survey

Due: January 25, 2013



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Year 1

Leak survey	1203840' (228 miles)	\$ 0.019561	\$ 23,548.31
Valve Exercising	1174	\$ 37.50	\$ 44,025.00
TOTAL:			\$ 67,573.31

Unit cost for correlated leaks:

Main Line \$ 245.00
 Hydrant \$ 85.00
 Service Line \$ 245.00
 Valve \$ 85.00
 Additional Category \$ _____

Specify _____

Year 2

Leak survey	1203840' (228 miles)	\$ 0.019986	\$ 24,060.00
Valve Exercising	1174	\$ 38.00	\$ 44,612.00
TOTAL:			\$ 68,672.00

Unit cost for correlated leaks:

Main Line \$ 250.00
 Hydrant \$ 90.00
 Service Line \$ 250.00
 Valve \$ 90.00
 Additional Category \$ _____

Specify _____

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Year 3

Leak survey	1203840' (228 miles)	\$ 0.020411	\$ 24,572.00
Valve Exercising	1174	\$ 38.50	\$ 45,199.00
TOTAL:			\$ 69,771.00

Unit cost for correlated leaks:

Main Line	\$ 250.00
Hydrant	\$ 90.00
Service Line	\$ 250.00
Valve	\$ 90.00
Additional Category	\$ _____

Specify _____



www.mesimpson.com

3406 Enterprise Avenue
Valparaiso, IN 46383

Phone: (800) 255-1521
Fax: (888) 531-2444

January 24, 2013

Mr. Mike Shortall
Purchasing Office
City of St. Charles
2 E. Main Street
St. Charles, Illinois 60174

Dear Mr. Shortall,

M.E. Simpson Co., Inc. is pleased to present our response to the request for proposals, for "**Leak Detection and Location Survey and Valve Exercising**" for the City of St. Charles, Illinois.

M.E. Simpson Co., Inc. is a **Technical Services** firm dedicated to developing and providing programs and services designed to maximize peak performance for our clients' water distribution and wastewater collection systems. Many of these programs are universally recognized as a part of "Best Management Practices" (BMP's) for utilities. We provide our clients the highest quality Technical and Professional Services, with highly skilled and trained professionals using state-of-the art technologies.

These services were developed and refined to provide Utilities with programs that can be customized to meet their needs. From complete "Turn-Key" services to assisting with the development of "In-House" programs utilized by a utility, M.E. Simpson Co., Inc. provides our services to our clients knowing that the public has the implicit faith that *"the water is always safe to drink"*.

This **Proposal** is being submitted as follows:

- ◆ **Required Documents**
- ◆ **Firm History**
- ◆ **Related Project Experience, References**
- ◆ **Employee Qualifications, Project Staffing**
- ◆ **Project Understanding and Approach**
- ◆ **Scope of Services, Proposed Schedule**
- ◆ **Proposal Fee**
- ◆ **Leak Survey & Valve Report Example**

We thank you for your consideration and this opportunity to acquaint you with our **Leak Detection and Location Survey & Valve Exercising Services** and offer this proposal. If there are any inquiries regarding this proposal, please do not hesitate to contact us. We look forward to hearing from you soon.

Sincerely yours,

John H. Van Arsdel
Vice President
JHV/jph



PROPOSAL FEE

January 24, 2013

M.E. Simpson Co., Inc. is pleased to present our "Cost Proposal" for Leak Detection and Valve Exercising Services for the **City of St. Charles, Illinois**. The leak survey program will be conducted on approximately **228** miles of pipe per year and **1,174** valves exercised per year in the Utility's water distribution systems. M.E. Simpson Co., Inc. will perform this leak survey with one or two of our two-man teams, with all necessary equipment, described within this document, furnished by M.E. Simpson Co., Inc. All procedures will be followed as described within this document. All travel, lodging and meals are included in the proposal price.

2013

Item	Estimated Qty.	Unit Cost	Total
Leak Survey	228 miles	\$110.00	\$25,080.00
Valve Exercising	1,174	\$38.00	\$44,612.00
Total			\$69,692.00

Unit Cost for Correlated Leaks:
 Main Line: \$275.00 each
 Hydrant: \$100.00 each
 Service Line: \$275.00 each
 Valve: \$100.00 each
 Additional Category: \$275.00 each

2014

Item	Estimated Qty.	Unit Cost	Total
Leak Survey	228 miles	\$110.00	\$25,080.00
Valve Exercising	1,174	\$39.00	\$45,786.00
Total			\$70,866.00

Unit Cost for Correlated Leaks:
 Main Line: \$275.00 each
 Hydrant: \$100.00 each
 Service Line: \$275.00 each
 Valve: \$100.00 each
 Additional Category: \$275.00 each

2015

Item	Estimated Qty.	Unit Cost	Total
Leak Survey	228 miles	\$110.00	\$25,080.00
Valve Exercising.	1,174	\$40.00	\$46,960.00
Total			\$72,040.00

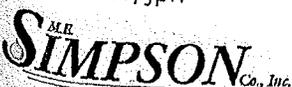
Unit Cost for Correlated Leaks:
 Main Line: \$275.00 each
 Hydrant: \$100.00 each
 Service Line: \$275.00 each
 Valve: \$100.00 each
 Additional Category: \$275.00 each

We thank you for this opportunity to acquaint you with our Leak Detection Services and offer this proposal. If you have further inquiries or you wish to discuss our service in more detail, do not hesitate to call us.

Sincerely Yours,

John H. Van Arsdel

John H. Van Arsdel
 Vice President
 JHV/jph



Valve Operating and Leak Detection & Location Survey -
 City of St. Charles, Illinois

