

**Agreement Addendum One Between City of Saratoga Springs,  
NY and The Chazen Companies  
Water Distribution System Modeling Project**

This Addendum One, between **The Chazen Companies** with offices at 547 River Street, Troy, NY 12180 ("Consultant") and the **City of Saratoga Springs** ("City"), 474 Broadway, Saratoga Springs, NY 12866 entered into between the above referenced parties on the effective date of March 18, 2014 is hereby added to the **Original Agreement dated August 6, 2013** for a total Contract sum of \$45,500.

Additional Services provided under this Agreement Addendum: Consultant shall provide **Additional Professional Services for work on the City Water Model and issues of Residual Chlorine in the Distribution System** as described in the "Proposal For Professional Services" dated January 28, 2014, for an additional total fee not to exceed Five Thousand dollars (\$5,000) a copy of which are hereto attached. Invoicing for the additional services shall be on a lump sum basis. The Consultant represents that the company providing this service is qualified to perform the type and scope of work to be done.

Accordingly, this Agreement Addendum Number Three brings the **Total Authorized Contract Amount** to: Fifty Thousand Five Hundred twenty three dollars (**\$50,500**).

The terms of the City's Risk and Safety Agreement as provided in the Original Agreement shall also cover this Agreement Addendum Number Three. All other terms and conditions of the original Agreement remain the same. The parties, having agreed to the terms and the recitals set forth herein, and in relying thereon, herein sign this Agreement.

CITY  
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

Title: \_\_\_\_\_

City Council Approval Date: \_\_\_\_\_

CONSULTANT  
Signature:  \_\_\_\_\_

Date: 03-13-14

Print Name: JOSEPH H LANARO

Title: PRINCIPLE, VP ENGINEERING



Engineers  
Environmental Professionals  
Land Surveyors  
Landscape Architects  
Planners

January 28, 2014

Mr. Timothy Wales, P.E.  
City Engineer  
Dept of Public Works - City of Saratoga Springs  
City Hall  
474 Broadway  
Saratoga Springs, New York 12866

*Re: Proposal for Professional Services – TSCO#1  
Water Distribution System Modeling & Consulting  
City of Saratoga Springs, Saratoga Co, New York  
Chazen Project No. 31330.01*

Dear Mr. Wales:

The Chazen Companies (Chazen) are pleased to provide the City of Saratoga Springs with this professional services amendment for additional services associated with the water distribution system study.

Chazen submitted a draft report dated November 8, 2013 which discussed potential deficiencies in the City's water distribution system and provided short and long-term recommendations for system improvements. City staff offered comments on the report which were reviewed by the City and Chazen on December 19, 2013. Some of the comments were considered "out of scope," but important to provide a comprehensive study. This amendment includes addressing the "out of scope" items for inclusion in the final deliverable. The "out of scope" comments are included below along with a description of Chazen's work effort:

- *Evaluate the effect of the Bog Meadow water supply on the distribution system.* Chazen will request design information from the engineer for the Bog Meadow project including pump hydraulics and operational parameters and will include this information in the City's water model. We will run a model scenario of the City's water distribution system with the addition of Bog Meadow and note significant variation of available flow and pressure, water age and general flow direction. Findings will be included in the final report.
- *Consider alternatives for new tank location, size and cost.* With the addition of the Bog Meadow water supply, it may be advantageous for the City to consider additional storage which may offer benefits including storage redundancy and improved chlorine residual management. Our final report will include general tank siting locations and conceptual level sizes and costs.
- *Discuss Disinfection By-Products (DBP).* The City has experienced elevated levels of DBP's in the distribution system. The final report will include discussion regarding the various suggested improvements and what impact they may have on DBP's. The City should provide historical DBP data for this analysis.

Chazen proposes to complete the above evaluations and include the noted findings in the final report for a lump sum increase of \$5,000 to Task 04 – Water Distribution System Improvement Recommendations.

**Capital District Office**

547 River Street, Troy, NY 12180  
P: (518) 273-0055 F: (518) 273-8391  
www.chazencompanies.com

Hudson Valley Office (845) 454-3980  
North Country Office (518) 812-0513

**Substantive Revisions**

This Scope of Services was developed based on known conditions of the system as of the date of this proposal and discussions with the Client. Please note that regulatory agencies may request additional technical studies, plans and documentation not outlined herein. Should such work be requested, Chazen will prepare a technical services change order for the Client's review, and will commence work upon receipt of an executed copy of same.

**Professional Services Fee Schedule**

Chazen proposes to bill each task as indicated in the following Fee and Time Schedule Summary. Invoices will be issued monthly for all services performed during that month, and are payable in accordance with the Client's procedures. Lump Sum tasks will be billed commensurately with the percentage of the task, which has been completed.

Reimbursable expenses will be tracked and billed directly to the appropriate task. Chazen's proposed project schedule is based on our understanding of the requested services.

**Fee Schedule Summary**

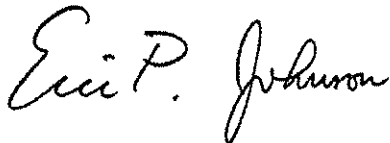
Tasks		Proposed Schedules	
Task No.	Task Description	Lump Sum Fee Bill	Projected Start / End Dates
04	Water Distribution System Improvement Recommendations	\$5,000 (increase)	Start: Week 1 Finish: Week 4

**Agreement / Authorization**

If the above stated scope and fee is acceptable, please forward written notification in accordance with the City's standard format as formal authorization to proceed.

If you have any comments, questions or need for additional information, please do not hesitate to call this office at (518) 273-0055.

Sincerely,



Eric P. Johnson, PE  
Director, Municipal Engineering

EPJ/epj

cc: Joseph Lanaro, PE – The Chazen Companies  
Proposal Distribution List  
File