

April 30, 2012



**CITY OF ANN ARBOR**

Project Management  
100 N. Fifth Avenue  
P.O. Box 8647  
Ann Arbor, MI 48107-8647

Attention: Nicholas Hutchinson, P.E., Project Engineer

Regarding: West Park Stormwater Completion Project  
Contract Amendment for Additional Engineering Services

Dear Mr. Hutchinson:

As you know, during the design phase of the West Park Stormwater Completion Project, it was necessary to have OHM perform additional engineering services that were not part of our contract with the City. These services were essential for completing the design, preparing the necessary contract documents for advertising and bidding the project, and meeting the intended schedule.

Due to the complexity of the project, it was necessary to expand the design to allow for the construction of either cast-in-place concrete drainage structures or pre-cast structures. It was decided that this format would provide for more competitive bidding, and, hopefully, lower unit prices for the construction. It should also help expedite the shop drawing review and approval process if pre-cast structures should be proposed by the successful low bidder. Providing this flexibility required the preparation of detailed structural drawings and specifications, as well as an increased number of project meetings and coordination effort.

OHM provided additional assistance during the public involvement process for the project, which included preparing and presenting a PowerPoint presentation at the second public meeting. We also provided additional assistance during the City's ongoing discussions with AquaShield, Inc., L.F. Manufacturing, Inc., Site Development, Inc., and Beckett & Raeder, Inc. concerning the problems that have occurred with certain elements of the previously completed project. This assistance will also include reviewing the structural analysis of the roof repairs that are being proposed for the eight (8) AS-12 AquaSwirl Concentrator (ASC) units, as well as providing some inspection assistance during the repairs. This work has not yet been performed, but it is still anticipated.

Other tasks that were performed included evaluating potential upstream detention areas within the north and south branches of the Allen Creek watershed, the portions west of N. Seventh Street. Although this evaluation wasn't critical to the success of the design completion, it may be considered in the future for further investigation for the purpose of potentially lowering peak stormwater flows in West Park. We also worked with the City and County to review and compile a list of the different types of treatment units that are currently in service. This was done in order to determine what would be the best "fit" for West Park if it was ultimately decided to replace the failed treatment units with those from a different manufacturer.

Due to the complexity of the project, it is anticipated that additional services will be needed from OHM to assist the City during the construction phase of the project. This includes additional effort for construction engineering, inspection and survey.

All of this extra effort was not contemplated as part of our original scope of services, and therefore, we are respectfully requesting that it be added to our contract, including the appropriate adjustment in our fee.

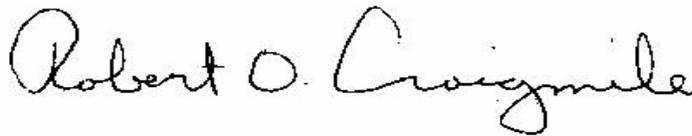
Enclosed for your review and consideration, please find an updated spreadsheet which details the estimated hours and fees for completing the project.

The estimated engineering fees are summarized as follows:

Design	\$76,945.00
Review of Structural Analysis	\$5,100.00
Construction	<u>\$80,801.00</u>
Total	\$162,846.00

If you have any questions, please give us a call.

Sincerely,  
**ORCHARD, HILTZ & McCLIMENT, INC.**



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Robert Craigmile, P.E.

Enclosure

cc: Vicki Putala, OHM  
File