



via e-mail:
sshirley@vah.com

March 26, 2021

Scott Shirley, Director of Public Works
Village of Arlington Heights
33 S. Arlington Heights Road
Arlington Heights, IL 60005

Re: Berkley Square Subdivision Drainage Improvements
Cook County Highway Department Drainage
Supplemental Services

Scott:

We are in receipt of your letter of March 10, 2021. In that letter, the Village concurs with CMT that a request for a supplement to the engineering agreement is warranted. The request is due to the requirement of the Cook County Highway Department (CCDH) that additional drainage evaluations beyond those contemplated in the original scope of services is now necessary to secure a permit from the CCDH.

CCDH has requested that a detailed drainage report be prepared to address flows downstream from the intended connection point at Arlington Heights Road. The report is to address flows from Arlington Heights Road to the outfall of the culvert at McDonald Creek, a significant distance beyond the project limits.

To address the request from CCDH, a significant amount of effort is required to develop the analysis. We will have to undertake additional field investigations and prepare a detailed drainage report that addresses the off-site components. The tasks that are required are as follows:

- Prepare a drainage report for existing and proposed site conditions
 - Develop the XPSWMM reporting
 - Prepare a technical memorandum on impacts and mitigation of impacts
 - Assemble the technical memorandum/report and transmit to CCHD
- Prepare the drainage report on downstream conditions
 - Evaluate downstream conditions, expanding the model from Arlington Heights Road to the outfall at McDonald Creek - North Branch per county request. Use the model to create the critical storm analysis and prepare the summarized reports.
 - Extend the profiles to include the culvert from Arlington Heights Road to the outfall at McDonald Creek - North Branch
 - Document and prepare the assessment of the stormwater detention on the drainage system
 - Respond to the CCHD comments

- Develop the report to include:
 - Critical storm assessment
 - Construction sequencing
 - Run-off rate evaluation

The anticipated effort to complete these tasks is \$32,790. A breakout of the engineering hours is shown below.

<u>Classification</u>	<u>Hours</u>	<u>Rate</u>	<u>Cost</u>
Project Engineer II	6	\$ 220	\$ 1,320
Project Engineer I	28	\$ 190	\$ 5,320
Engineer I	153	\$ 130	\$19,890
Senior Technician II	32	\$ 160	\$ 5,120
Administrative. Asst.	<u>12</u>	\$ 95	<u>\$ 1,140</u>
Totals	231		\$32,790

Should the village find this request acceptable, kindly provide us with a supplemental purchase order. We would be pleased to discuss this request with you and staff should you have any questions.

Respectfully Submitted,
CRAWFORD, MURPHY & TILLY, INC.



Joel Koenig, P.E., Env SP
Senior Project Manager

cc: Michael Pagones – (mpagones@vah.com)
Cris Papierniak – (cpapierniak@vah.com)
Jim Zaharopoulos – (jzaharopoulos@vah.com)