



### AGENDA ITEM EXECUTIVE SUMMARY

Agenda Item:	Sanitary Sewer River Crossing Design Engineering Amendment No. 1		
Presenter & Title:	Bob Van Gyseghem, Superintendent of Water & Wastewater		
Date:	October 7, 2024		
<b>Please Check Appropriate Box:</b>			
<input type="checkbox"/>	Committee of the Whole Meeting	<input type="checkbox"/>	Special Committee of the Whole Meeting
<input checked="" type="checkbox"/>	City Council Meeting	<input type="checkbox"/>	Special City Council Meeting
<input type="checkbox"/>	Public Hearing	<input type="checkbox"/>	Other -
Associated Strategic Plan Goal/Objective: EMSII			
Estimated Cost: \$965,000	Budgeted?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Other Funding? <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Executive Summary:</b>			
<p>On June 6, 2022, the City entered into a professional services agreement with Fehr Graham for the design of a new sanitary sewer river crossing and screening building. Fehr Graham is requesting an amendment to the contract due to unanticipated hours required for the design and permitting of the project. A memorandum explaining the unanticipated hours is attached. Costs associated with the amendment will be accommodated within the existing budget and reflected in a future budget amendment if necessary.</p>			
<b>Attachments:</b> <i>(please list)</i>			
<ul style="list-style-type: none"> <li>• Resolution</li> <li>• Amendment</li> </ul>			
<b>Voting Requirements:</b>			
<p><i>This motion requires a simple majority of affirmative votes for passage. (City Council Only)</i></p> <p><i>The Mayor may vote on three occasions: (a) when the vote of the alderpersons has resulted in a tie; (b) when one half of the alderpersons elected have voted in favor of an ordinance, resolution, or motion even though there is no tie vote; or (c) when a vote greater than a majority of the corporate authorities is required by state statute or local ordinance to adopt an ordinance, resolution, or motion.</i></p>			
<b>Recommendation / Suggested Action:</b> <i>(how the item should be listed on agenda)</i>			
<p>Recommend approval of a Resolution authorizing the execution of an amendment to the professional services agreement with Fehr-Graham in the amount of \$65,000 for a total not-to-exceed amount of \$965,000.00 for sanitary sewer river crossing and screening building design services.</p>			

**RESOLUTION NO. 2024-98**

**RESOLUTION AUTHORIZING EXECUTION OF  
Amendment to Engineering Services Agreement for Sanitary Sewer River Crossing and  
Screening Building Design**

**BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GENEVA, KANE COUNTY, ILLINOIS**, as follows:

**SECTION 1:** That the City Administrator is hereby authorized to execute, on behalf of the City of Geneva, an amendment to the engineering service agreement with Fehr-Graham Engineering & Environmental, related to the sanitary sewer river crossing and screening building design.

**SECTION 2:** This Resolution shall become effective from and after its passage as in accordance with law.

**PASSED** by the City Council of the City of Geneva, Kane County, Illinois, this \_\_\_\_ day of \_\_\_\_\_, 2024

**AYES:** \_\_ **NAYS:** \_\_ **ABSENT:** \_\_ **ABSTAINING:** \_\_ **HOLDING OFFICE:** \_\_

Approved by me this \_\_\_\_ day of \_\_\_\_\_, 2024.

\_\_\_\_\_  
Mayor

ATTEST:

\_\_\_\_\_  
City Clerk

September 11, 2024

Bob VanGyseghem  
Superintendent of Water & Wastewater  
City of Geneva  
1800 South Street  
Geneva, Illinois 60134

**Re: Amendment for Professional Engineering Services  
Sanitary Sewer River Crossing and Screening Building Design**

Dear Bob:

Fehr Graham (FG) is providing this *“Amendment to Owner-Engineer Agreement, Amendment No. 1”* for professional consulting engineering services to finalize the contract documents based on permit review from the different state and federal agencies to submit the loan application and proceed with bid assistance. This is an amendment to our original contract dated June 6, 2022.

Several issues arose that required Fehr Graham staff to perform additional services. They included the following:

- » Additional Surveying and Modeling for IDNR Permit.
  - The existing IDNR 1D model was deficient for modeling purposes and was missing key bridge elements.
    - FG modeled the missing bridge elements and built a new 2D model to get permit approval.
  - The Digital Elevation Model (DEM) provided by IDNR was not sufficiently representative of existing conditions and contained inadequate Bathymetric Surveying
    - Fehr Graham had to provide an extra survey to supplement the existing model, perform quality control on upland elevations, and collect in-river cross sections (11 total).
- » Additional Design Considerations.
  - The final location of the river crossing varied from the original concept.
    - Multiple design level iterations were required to address ongoing: SHPO guidance on historic koi pond and service station, USACE minimal burial depths, IEPA guidance on hydraulics and constructability and Utility clearances.
  - The final location of the screening building and the east junction box required structural protection for existing structures from potential undermining during construction.
    - Additional Structural engineering design not included in the contract scope of services.
  - Due to the service station demolition, modification to the administration building's break room was required.
    - Additional Electrical and mechanical engineering design not included in the contract scope of services.
- » Permitting/Regulatory Agencies
  - IEPA refused to allow project plan approval without USACE and SHPO approval and mutual agreements.
    - Section 106 and Section 707 rules inhibited the project plan approval despite additional meetings to coordinate with USACE and SHPO to secure timely approvals.

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 Bob VanGyseghem, City of Geneva  
 Geneva WWTP River Crossing and Screening Building Design  
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- IEPA 401 Water Quality Certification was noted as not being required, but ultimately, it was required.
  - Additional services to develop best management practices to prevent the resuspension of sediments, settling on administrative controls and floating silt curtains installed in the river to secure 401 Certification.
- USACE determined that a Phase I/II survey is needed for the project site in accordance with Section 106 of the National Historic Preservation Act (NHPA) of 1966 and 33 CFR 325 Appendix C.
  - Additional subconsultant services required to perform the survey. Senior cultural resources quality assurance review.

These additional services resulted in additional out-of-scope labor costs and equipment direct expenses, as outlined below.

## FEES

Fehr Graham requests a contract amendment to provide for the additional budget needs resulting from the additional efforts to complete the out-of-scope tasks as summarized below:

	Estimated Hours	Amendment Budget
Additional Surveying and Modeling for IDNR Permit	175	\$24,000
Additional Design Considerations	140	\$19,200
Permitting/Regulatory Agencies	157	\$21,800
<b>Total Amendment No. 1</b>	<b>472</b>	<b>\$65,000</b>
Original Contract		\$900,000
<b>Total Contract</b>		<b>\$965,000</b>

## AUTHORIZATION

The requested contract amendment is attached hereto. Please review and, if appropriate, execute as noted and return it to our attention. Should council approval be necessary before the execution of the amendment, please know we would appreciate the opportunity to be notified when this may be placed on an agenda for consideration so we may be present to help answer any questions they may have. We appreciate this opportunity to be of service and look forward to finalizing this project. If you have any questions or comments concerning the enclosed, please do not hesitate to contact our office.

Sincerely,



Chris DeSilva, P.E. ENV SP  
 Branch Manager

CC: AJB, KK

**Authorization:**

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