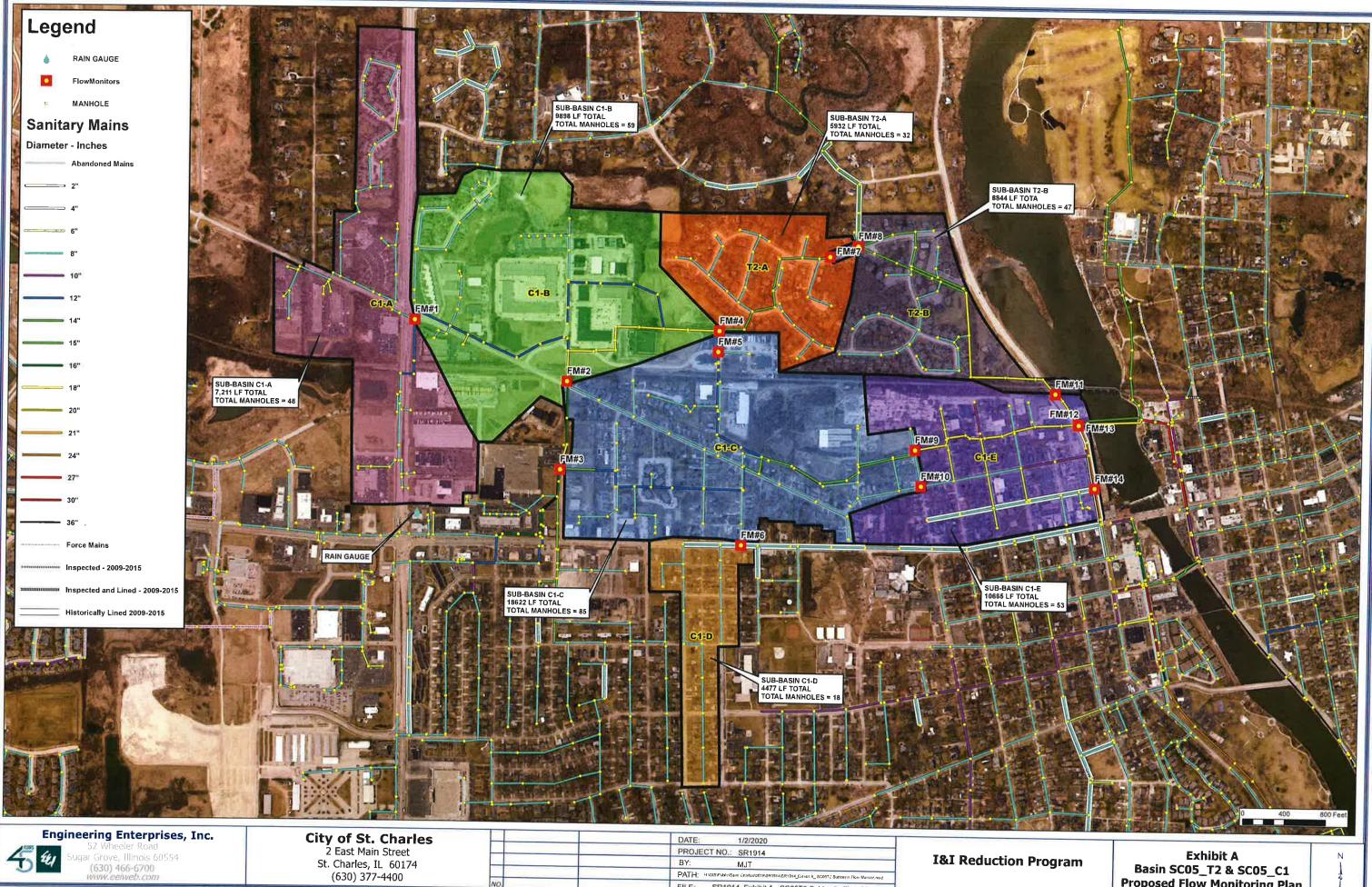


#### **Attachments** (please list):

\* SCO5 Area Map \* EEI Agreement for Consulting Engineering Services \* Resolution

#### **Recommendation/Suggested Action** (briefly explain):

Recommendation to award Agreement for Engineering Services for Basin SCO5 Phase 1 Flow Monitoring to Engineering Enterprises Inc. for a not to exceed amount of \$87,533.







lgar Grove, Illinois 60554 (630) 466-6700 www.eeiweb.com

	DATE: 1/2/2020
	PROJECT NO.: SR1914
	BY: MJT
	PATH: HIGISPublicISaini Charles/2019/SR1914/SR1914_Exhbit A_SC0572 Subbasin Flow Monitor, no d
NO.	FILE: SR1914 Exhibit A SC05T2 Subbasin Flow Monitor

Basin SC05\_T2 & SC05\_C1 Proposed Flow Monitoring Plan





April 10, 2020

Mr. Tim Wilson Public Works Manager - Environmental Services City of St. Charles Two East Main Street St. Charles, IL 60174

Re: SCO5-T2 & C1 Flow Monitoring (Phase 1) City of St. Charles, Kane & DuPage Cos., IL

Dear Mr. Wilson:

In accordance with your request, enclosed for your review and consideration are two copies of our proposed agreement for the Subbasin SCO5-T2 & C1 Flow Monitoring within the City's sanitary sewer network. Flow monitoring of the SCO5-T2 & C1 Subbasin is part of the City's overall Inflow and Infiltration Reduction Program. Inflow & Infiltration (I/I) investigations are meant to delineate problematic areas of the system that are prime candidates for further sewer system evaluation work and appropriate rehabilitation.

The attached agreement includes a detailed scope of services, estimate of level of effort and associated cost, and schedule for the project. We are proposing to provide our professional engineering services on a time and materials basis for a not-to-exceed cost of \$87,533. Our proposed schedule is to conduct flow monitoring from mid-May through mid-July. We will complete the data analysis through the end of summer and complete the report in the fall.

The flow monitoring for the SCO5-T2 & C1 Subbasin was recommended for the City as part of the Capacity, Management, Operations, and Maintenance (CMOM) Plan written for the City in February 2016. Additional sewer system evaluation work and actual rehabilitation of the SCO5-T2 & C1 sewer system is scheduled for calendar years 2021 and 2022, respectively. The scope and cost of the rest of the 15-year long, multiphase I/I reduction program can be found in Table No. 3-3 of the February 2016 CMOM plan.

We look forward to continuing our outstanding partnership with the City and look forward to working with you and members of your staff on this project. If you have any questions or require any additional information, please do not hesitate to contact me.

Respectfully submitted,

ENGINEERING ENTERPRISES, INC.

effor W. Freman

Jeffrey W. Freeman, P.E., CFM, LEED AP Chief Executive Officer

JWF/anu Enclosures

oc: Matt Wilson - Public Works Division Manager (Via E-mail)

Dave Todd - Environmental Services Assistant Division Manager (Via E-mail)

STD, ANU, DMT & ARS - EEI (Via E-mail)

G:\Public\St. Charles\2019\SR1914 Basin SC05-T2 & C1 Phase 1 Flow Monitoring\PSA\Lwilson.doc

# AGREEMENT FOR CONSULTING ENGINEERING SERVICES FOR SUBBASIN SCO5-T2 & C1 FLOW MONITORING

This Agreement made	this day	of	, 2020 by an	d between the	City of
St. Charles, Kane and	DuPage Counties,	Illinois, a municipal	corporation	of the State of	Illinois
(hereinafter referred to	as the "CITY") an	d Engineering Ente	rprises, Inc.	of 52 Wheeler	Road,
Sugar Grove, Illinois, 6	0554 (hereinafter r	eferred to as the "El	NGINEER").		

In consideration of the mutual covenants and agreements contained in this Agreement, the CITY and the ENGINEER agree, covenant and bind themselves as follows:

- 1. <u>Services</u>: ENGINEER agrees to perform for the CITY the Services defined within Attachment A.
- 2. <u>Direction</u>: The Public Works Manager Environmental Services, or his written designee, shall act as the CITY'S representative with respect to the Services to be provided by the ENGINEER under this Agreement and shall transmit instructions and receive information with respect to the Consulting Engineering Services.
- 3. <u>Compensation</u>: The work items, estimated staff time, and projected fees for each work item are summarized within Attachment B. Based on this computation, the CITY agrees to pay the ENGINEER for providing the Services set forth herein on a time and materials basis not-to-exceed an amount of \$87,533.
- 4. <u>Term</u>: The term of this Agreement shall be active through December 31, 2020 unless otherwise extended through written confirmation by both parties. The work items and phases shall be completed in accordance with the schedule defined within Attachment C.
- 5. <u>Payment</u>: Engineer shall invoice the CITY on a monthly basis for Services performed and any costs and expenses incurred during the previous thirty (30) day period. The CITY shall pay the ENGINEER within thirty (30) days of receipt of said invoice.
- 6. <u>Termination</u>: This Agreement may be terminated upon fourteen (14) days written notice of either party. In the event of termination, the ENGINEER shall prepare a final invoice and be due compensation calculated as described in paragraph 3 for all costs incurred through the date of termination.
- 7. <u>Documents</u>: All related writings, notes, documents, information, files, etc., created, compiled, prepared and/or obtained by the ENGINEER on behalf of the CITY for the Services provided herein shall be used solely for the intended project.
- 8. <u>Notices</u>: All notices given pursuant to this Agreement shall be sent Certified Mail, postage prepaid, to the parties at the following addresses:

The CITY:

City of St. Charles Two East Main Street St. Charles, IL 60174 Attn: Tim Wilson

Public Works Manager - Environmental Services

The ENGINEER:

Engineering Enterprises, Inc. 52 Wheeler Road Sugar Grove, IL 60554

Attn: Jeffrey W. Freeman, P.E. CFM, LEED AP Chief Executive Officer

- 9. <u>Waiver</u>: The failure of either party hereto, at any time, to insist upon performance or observation of any term, covenant, agreement or condition contained herein shall not in any manner be constructed as a waiver of any right to enforce any term, covenant, agreement or condition hereto contained.
- 10. <u>Amendment</u>: No purported oral amendment, change or alteration hereto shall be allowed. Any amendment hereto shall be in writing by the governing body of the CITY and signed by the ENGINEER.
- 11. <u>Succession</u>: This Agreement shall ensure to the benefit of the parties hereto, their heirs, successors and assigns.

IN WITNESS WHEREOF, we have hereunto signed our names the day and year first above written.

CITY OF ST. CHARLES	ENGINEERING ENTERPRISES, INC.:
Mayor	Chief Executive Officer
ATTEST:	ATTEST:
	Angola R. Smith
Title:	Administrative Assistant

# ATTACHMENT A — SCOPE OF SERVICES SUBBASIN SCO5-T2 & C1 FLOW MONITORING (PHASE 1)

INFLOW AND INFILTRATION REDUCTION PROGRAM
City of St. Charles, Kane and DuPage Cos., IL

#### Introduction

The Subbasin SCO5-T2 & C1 flow monitoring phase will help delineate inflow and infiltration severity throughout the subbasin. The I/I Investigation for Subbasin SCO5-T2 & C1 is part of a 15-year, multiphase plan to complete flow monitoring, sewer system evaluation surveys, and rehabilitation as necessary for all mains within the St. Charles sanitary sewer system. The scope and cost of the Subbasin SCO5-T2 & C1 flow monitoring phase only covers the first portion of the flow monitoring study for SCO5-T2 & C1. The estimated scope and cost of the entire 15-year St. Charles Sanitary Basin Evaluation and Rehabilitation Plan can be found in Table No. 3-3 of the February 2016 CMOM plan.

As part of the Subbasin SCO5-T2 & C1 flow monitoring phase, the subbasin will be divided into seven (7) subbasins in order that the sanitary sewer flows and the correlating I/I can be further defined within the subbasin. The proposal includes flow monitoring at fourteen (14) locations for eight (8) weeks. The attached Exhibit A shows the locations of fourteen proposed flow monitoring locations and provides additional detail for all locations. All cost and schedule decisions were based off EEI's best knowledge of the SCO5-T2 & C1 Subbasin to-date. The proposed flow monitoring locations have been reviewed with City staff in order to ensure accessibility to all flow monitor monitors, as well as the appropriate placement of each flow monitor.

The base proposal also includes the installation of a recording rain gauge in a secure location to measure rainfall during the monitoring period. The quality of the flow monitoring results will be increased with an increased number of precipitation events. A minimum of two 1.0-inch or greater rain events over a 24-hour period is needed to make reasonable conclusions. The City will have the opportunity to increase the flow monitoring period at the end of the eight-week period should a sufficient rain event not occur or if they would wish to obtain additional data. Once sufficient flow monitoring data is obtained, the data will be provided to St. Charles for review.

The proposed work items for this project are as follows:

#### **PROJECT FACILITATION & MEETINGS:**

- 0.1 Project Administration
- 0.2 Project Initiation & Progress Meeting (2 Total Meetings)

#### FLOW MONITORING:

- 1.1 Divide Subbasin SCO5-T2 & C1 Into Sub-Subbasins
- 1.2 Monitor Flows (Assumes 14 Locations) Within Subbasin For 8 Weeks
- 1.3 Monitor Rainfall (Assumes 1 Location) Within Subbasin For 8 Weeks
- 1.4 Analyze Flows & Determine I/I by Sub-Subbasin

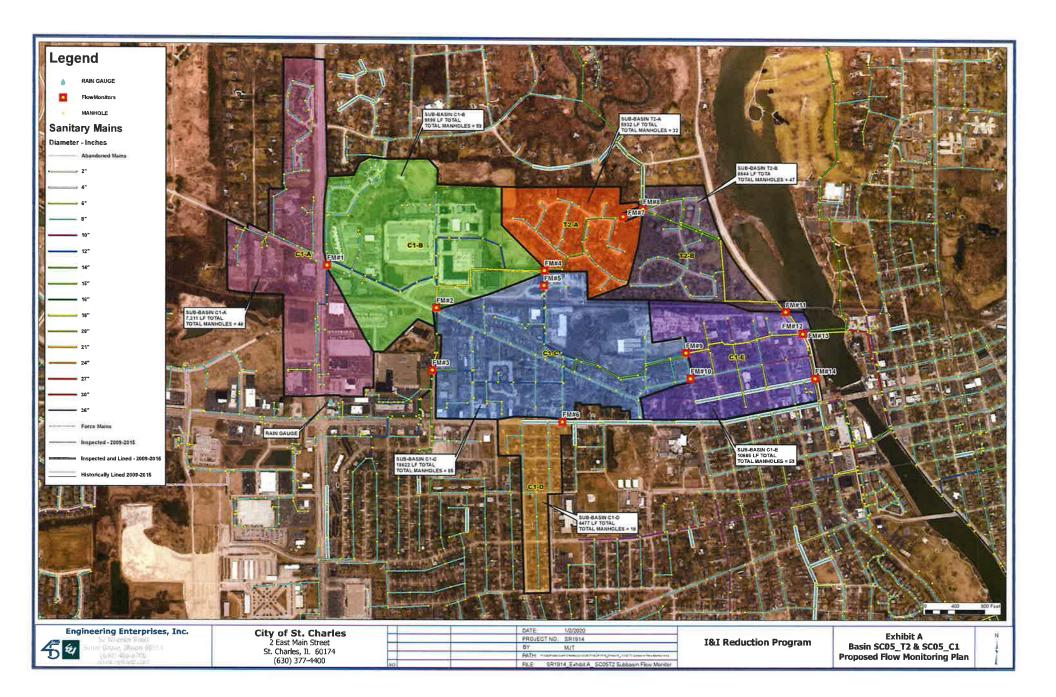
Exhibit A – Scope of Services Page 2 of 2

#### **REPORT:**

2.1 Prepare Flow Monitoring Report

#### **Additional Services**

The above scope summarizes the work items that will be completed for this contract. Additional work items, including additional meetings beyond the project initiation meeting defined in the above scope, shall be considered outside the scope of the base contract and will be billed in accordance with the Standard Schedule of Charges.



#### **ENGINEERING ENTERPRISES, INC.** CONSULTING ENGINEERS

DATE:	4/10/2020
ENTERED BY:	ANU/JWF

#### Attachment B:

#### ESTIMATE OF LEVEL OF EFFORT AND ASSOCIATED COST FOR PROFESSIONAL ENGINEERING SERVICES BASIN SCO5-T2 & C1 PHASE 1 (FLOW MONITORING) STUDY

## INFLOW AND INFILTRATION REDUCTION PROGRAM CITY OF ST. CHARLES, KANE AND DUPAGE COS., IL

	NTITY:				E	El					WORK	
WORK ITEM	PROJECT ROLE:	SENIOR PRINCIPAL	SENIOR PROJECT MANAGER	PROJECT ENGINEER	SENIOR PROJECT TECHN, I	PROJECT TECHN.	SURVEYING MANAGER	SENIOR PROJECT TECHN. II	ADMIN.	SUB- CONSULTANT	HOUR SUMM.	COST PER ITEM
NO. WORK ITEM	OURLY RATE:	\$209	\$203	\$145	\$145	\$133	\$183	\$158	\$70			
ROJECT FACILITATION & MEETINGS		-										
0,1 Project Administration		1	4				1				5	\$1,02
0.2 Project Initiation & Progress Meeting (2 Total Meetings)		4	8	6					2		20	\$3,47
Project Fa	cilitation Subtotal:	5	12	6					2	0	25	\$4,49
LOW & RAINFALL MONITORING  1.1 Divide Subbasins SCO5-T2 & C1 Into Sub-Subbasins 1.2 Monitor Flows (Assumes 14 Locations) Within Subbasin Fo	an D Minnie	1	4	8	8						21	\$3,34
1.3 Monitor Rainfall (Assumes 14 Locations) Within Subbasin For		1	2	8						\$58,000 \$1,200	13	\$60,18
1.4 Analyze Flows & Determine I/I Severity By Subbasin		1	8	40						\$1,200	49	\$2,39 \$7,63
Flow & Rainfall Mo	onitoring Subtotal:	4	18	60	8					\$59,200	90	\$73,55
REPORT												
2,1 Prepare Flow Monitoring Report		2	8	32	16				2		60	\$9,14
	Report Subtotal:	2	8	32	16	7.5			2	0	60	\$9.14
		11										

DIRECT EXPENSES						
Printing =	\$250					
Mileage =	\$100					
DIRECT EXPENSES =	\$350					

LABOR EXPENSES	
Engineering Expenses =	\$24,223
Drafting Expenses =	\$3,480
Surveying Expenses =	\$0
Administrative Expenses =	\$280
Subconsultant Expenses =	\$59,200
TOTAL LABOR EXPENSES =	\$87,183

TOTAL CONTRACT COSTS = G \PubliciSt Charles\D19\SR1914 Basin SC05\T2 & C1 Phase 1 Flow Monitoring\PSA\[Attachment B - Fee Stnedule\_A\_SC05\R3 & T1 zisx|Fears (19-12-31)

#### **ENGINEERING ENTERPRISES, INC.**

**CONSULTING ENGINEERS** 

#### Attachment C: SCHEDULE

#### BASIN SCO5-T2 & C1 PHASE 1 (FLOW MONITORING) STUDY

2020 INFLOW AND INFILTRATION REDUCTION PROGRAM CITY OF ST. CHARLES, KANE AND DUPAGE COS., IL

WORK		Year:															20	20														
ITEM		Month:		Apr		Т	Ma	ay	Т		Jur	ne			July	1	Т	- 1	Aug	ust		Se	epte	mb	er	0	ctob	er		Nov	embe	r
NO.	WORK ITEM	Week Starting:	6	13 2	0 27	7 4	11	18	25	1 8	15	27	29	6	13 2	0 2	7 3					7	14	21	28	5 1	2 1	9 26	2	9	16 23	30
ONTRA	ACT APPROVAL			N.F.W.			100	3 3	1170	363					313		-		100			180	1					100				
а	Government Services Committee Meeting							П	Т		Т	T	П		$\neg$	Т	Т	Т	Т	Т	Т	Т			$\neg$	$\neg$	$\neg \neg$	T				Т
b	City Council Meeting								1	$\neg$	1	T			$\neg$	1	Ť				1	$\vdash$	$\Box$	$\Box$	$\neg$	$\top$	+	+	Ħ			$^{\dagger}$
ROJEC	T FACILITATION & MEETINGS		188	100	1			100	Tipe I	in a	200					10	ol o	me	-		086				100				No.			100
0.1	Project Administration			$\neg \neg$		П			Т	$\neg$	Т	Т							Т	Т					$\neg$	$\neg$						
0.2	Project Initiation and Progress Meetings (2 Total Meetings	)							1	$\neg$	$\top$	$\dagger$	П	П	$\neg$		1	1	+	$\top$		Н				+	+	_	1	$\neg$	$\neg$	т
	IONITORING				100	No.		Will	dia		600	100	Torri	100				ile:		ř.	i i		25.012			0.00					<b>H</b>	
1.1	Divide Subbasin SCO5-T2 & C1 Into Subbasins			$\neg$		П			Т	$\neg$	┰	Т	$\Box$		$\neg$	T	Т	T	T	Т					T	$\neg$	$\neg$	$\overline{}$		$\neg$	$\neg$	↽
1.2	Monitor Flows (Assumes 14 Locations) Within Subbasin Fo	r 8 Weeks			1	17			ı								1	1	1	T	1	T	П		_	$\top$	+	+		$\dashv$	_	1
1.3	Monitor Rainfall (Assumes 1 Location) Within Subbasin Fo	8 Weeks			1	17			T						_		1	1	+	+	t	t	$\Box$	$\neg$	$\neg$	1	+			$\neg$	$\neg$	1
1.4	Analyze Flows & Determine I/I Severity By Subbasin			$\neg$		1									_					t			181		_	+	+	+	Н	$\dashv$	+	+
REPORT		S TO STATE OF STATE O		190	-10	0		200	and a	Silili	100			-	100			108		RE.	Ŕ,	8		-			-	1				
2.1	Prepare Flow Monitoring Report								T	T	_	T		T			T			1	T											

Legend	
City Council Meeting Project Administration Work Item(s) Meeting(s) & Field Visits	Field & Analysis Work Report Development

# 红

### **Standard Schedule of Charges**

January 1, 2020

EMPLOYEE DESIGNATION	CLASSIFICATION	HOURLY RATE
Senior Principal	E-4	\$214.00
Principal	E-3	\$209.00
Senior Project Manager	E-2	\$203.00
Project Manager	E-1	\$183.00
Senior Project Engineer/Planner/Surveyor II	P-6	\$172.00
Senior Project Engineer/Planner/Surveyor I	P-5	\$160.00
Project Engineer/Planner/Surveyor	P-4	\$145.00
Senior Engineer/Planner/Surveyor	P-3	\$133.00
Engineer/Planner/Surveyor	P-2	\$121.00
Associate Engineer/Planner/Surveyor	P-1	\$109.00
Senior Project Technician II	T-6	\$158.00
Senior Project Technician I	T-5	\$145.00
Project Technician	T-4	\$133.00
Senior Technician	T-3	\$121.00
Technician	T-2	\$109.00
Associate Technician	T-1	\$ 96.00
GIS Technician	G-1	\$ 90.00
Engineering/Land Surveying Intern	I-1	\$ 79.00
Administrative Assistant	A-3	\$ 70.00
VEHICLES. REPROGRAPHICS, DIRECT COSTS, DRONE AND EXVehicle for Construction Observation In-House Scanning and Reproduction	\$0.25/Sq. Ft. (Black & White) \$1.00/Sq. Ft. (Color)	\$ 15.00
Reimbursable Expenses (Direct Costs) Services by Others (Direct Costs) Unmanned Aircraft System / Unmanned Aerial Vehicle / Drone Expert Testimony	Cost Cost + 10%	\$ 200.00 \$ 250.00

City of St.	Charles,	Illinois
Resolution	No.	

# A Resolution to approve Engineering Services Agreement for Basin SCO5 Phase 1 Flow Monitoring with Engineering Enterprises, Inc. in an amount not to exceed \$87,533

# Presented & Passed by the City Council on , 2020

WHEREAS, this study will be a continuation of services already established with Engineering Enterprises Inc. (EEI) and the work they have already completed in relation to capacity and CMOM studies;

THEREFORE, BE IT RESOLVED by the Mayor and City Council of the City of St. Charles, Kane and DuPage Counties, Illinois, that the Engineering Services Agreement for Basin SC05 Phase 1 Flow Monitoring be awarded to Engineering Enterprises Inc. in the amount of \$87,533.

PRESENTED to the City Council of the City of St. Charles, Illinois, this\_day of April, 2020

PASSED by the City Council of the City of St. Charles, Illinois, this\_\_day of April, 2020

APPROVED by the Mayor of the City of St. Charles, Illinois, this\_\_day of April, 2020

ATTEST:	Raymond P. Rogina, Mayor
City Clerk	
COUNCIL VOTE:	
Ayes:	
Nays:	

Absent: Abstain: