# CLERK'S CONTRACT and AGREEMENT COVER PAGE

Legistar File ID#: 2015-0685 Innoprise Contract #: C15-0120

**Year:** 2015-2019 **Amount:** 

Department: Public Works - John Ingram/Doug Medland

Contract Type: Professional Engineering

Contractors Name: RJN Group, Inc.

Contract Description: Comprehensive Sanitary Sewer Evaluation

2015 \$30,000

2016 & 2017 \$50,000 2018 & 2019 TBD

C16-0048 (2016-0264) Addendum A Sanitary Flow Monitoring \$147,320 C17-0043 (2017-0145) Addendum B Strategic Flow Monitoring (I/I) \$82,300

**MAYOR** Keith Pekau

VILLAGE CLERK
John C. Mehalek

14700 S. Ravinia Avenue Orland Park, IL 60462 708.403.6100 OrlandPark.org



TRUSTEES

Kathleen M. Fenton
James V. Dodge
Patricia A. Gira
Carole Griffin Ruzich
Daniel T. Calandriello
Michael F. Carroll

September 12, 2017

Mr. Joseph Sullivan RJN Group 175 McDonald Avenue, Suite B Joliet, IL 60431

R.E.: Addendum B dated April 26, 2017

Comprehensive Sanitary Sewer Evaluation Contract

Dear Mr. Sullivan:

Enclosed is a copy of the addendum dated April 26, 2017 for the change to provide engineering services pertaining to sanitary sewer inflow and infiltration capital improvement program. Please attach this to the original Comprehensive Sanitary Sewer Evaluation Contract dated November 17, 2015.

If you have any questions, please call me at 708-403-6173.

Sincerely,\_\_

Denise Domalewski

Purchasing & Contract Administrator

Encl:

cc: Doug Medland



# **PURCHASE ORDER**

No. 17-001322

THIS NUMBER MUST APPEAR ON ALL INVOICES, PACKAGES, SHIPPING DOCUMENTS AND CORRESPONDENCE RELATED TO THIS PURCHASE

# BILL TO: VILLAGE OF ORLAND PARK

14700 RAVINIA AVENUE ORLAND PARK, IL 60462

PHONE: 708-403-6100

FAX: 708-403-9212 PURCHASE ORDER DATE: 05/02/2017

VENDOR:

RJN Group, Inc. 200 W. Front Street Wheaton, IL 60187 SHIP то: Village of Orland Park Not Applicable

Orland Park, IL 60462

	VENDOR NO.	VENDOR	PHONE NO.	VENDOR FAX NO	CONTRACT NO	D. TERMS		BUYER
	13839	(630) 6	82-4700		C17-0043	NET30	Deni	se Domalewski
		CONFIRM	и то	- 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1	DELIVER BY	REQUISITION NO	RE	QUISITIONED BY
		Zachary I	Matyja		03/07/2017	R17-000863	Do	ug Mediand
LINE	O. QUANTITY	UOM	yildi babasan da d	ITEM NO. & I	DESCRIPTION	24 25 25 25	UNIT COST	EXTENDED COST -
	1 82,300.00	1	months, 3 p purchased to collection fo	oreviously purch 2017 for long te orm 131st , 151 d Lift Stations	ng: 13 sites, 7 lea nased 2016 and 3 erm monitoring. De st, Fairway and	new	\$1.00	\$82,300.00

TOTAL \$82,300.00

TAX EXEMPTION NO. E9998-1807-07

**EMAIL INVOICES DIRECTLY TO:** 

accountspayable@orlandpark.org

By:

PAGE NO. 1

#### ADDENDUM B to

Comprehensive Sanitary Sewer Evaluation Contract

#### Dated

November 17, 2015

### Amended April 19, 2016

#### Between

The Village of Orland Park, Illinois ("VILLAGE") and RJN Group ("CONTRACTOR")

WHEREAS, on November 17, 2015, a certain Agreement regarding Comprehensive Sanitary Sewer Evaluation Professional Engineering Services between the Village and the Contractor was executed (hereinafter referred to as the "Agreement"); and

WHEREAS, on April 19, 2016, a certain Agreement regarding Comprehensive Sanitary Sewer Evaluation Professional Engineering Services between the Village and the Contractor was amended (hereinafter referred to as the "Addendum A"); and

WHEREAS, the Village wishes to modify the Scope of Work for 2017.

NOW, THEREFORE, for and in consideration of the foregoing and the mutual covenants herein contained, it is agreed by and between the parties hereto as follows:

- 1. In the event of any conflict or inconsistency between the provisions of this Addendum and the Agreement, the provisions of this Addendum shall control.
- 2. <u>SECTION 1: THE CONTRACT DOCUMENTS</u> of said Agreement shall be amended to include Addendum B dated April 26, 2017 for Sanitary Flow Monitoring
- 3. <u>SECTION 2: SCOPE OF THE WORK AND PAYMENT</u> of said Agreement shall be amended to include the following:
  - "H. Provide engineering services pertaining to the Village's Sanitary Sewer Inflow and Infiltration (I/I) Capital Improvement Program (CIP) at six (6) locations at a cost not to exceed \$82,300.00 as detailed in the proposal dated February 27, 2017. This includes the purchase of three (3) additional flow monitoring devices."
- 4. All of the other terms, covenants, representations and conditions of said Agreement not deleted or amended herein shall remain in full force and effect during the effective term of said Agreement.
- 5. This Addendum may be executed in two or more counterparts, each of which taken together, shall constitute one and the same instrument.

This Addendum, made and entered into effective the **26th day of April**, **2017**, shall be attached to and form a part of the Agreement dated the 17th day of November, 2015 and shall take effect upon signature below by duly authorized agents of both parties.

## ADDENDUM B to

Comprehensive Sanitary Sewer Evaluation Contract

### Dated

November 17, 2015

## Amended

April 19, 2016

## Between

The Village of Orland Park, Illinois ("VILLAGE") and RJN Group ("CONTRACTOR")

AGREED AND ACCEPTED	
FOR: THE VILLAGE OF ORLAND PARK	FOR: RJN Group
Ву:	By: Muchael M. Joury
Print Name: Joseph S. La Wargo	Print Name: Michael W. Young
Its: Interim Village Manage	Its: Senior Vice President
Date: 8 17 17	Date: 8/16/17



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 7/27/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS

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	DUCER	000	,		CONTAC NAME:	CSU Ch	nicago			
HU	3 International Midwest Limited			-	PHONE	, Ext): 312-92		FAX (A/C, No):		
55 I	East Jackson Boulevard			•	E-MAIL	csuchica	go@hubinte	ernational.com		
CIII	cago IL 60604			-	AUURE			RDING COVERAGE		NAIC#
					INSURE			nsurance Company		29424
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	N Group Inc.							ance Company		29459
200	W. Front Street			<u>.</u>			ntal Casuali			20443
Wh	eaton IL 60187			=	INSURE			. <del>, </del>		
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INSR LTR	TYPE OF INSURANCE	INSD	WVD	POLICY NUMBER		POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMIT	s	
Α	X COMMERCIAL GENERAL LIABILITY			83UUNAJ1317		8/1/2017	8/1/2018	EACH OCCURRENCE	\$1,000	,000
	CLAIMS-MADE X OCCUR	. 1						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$300,0	00
	GEN'L AGGREGATE LIMIT APPLIES PER:			,				MED EXP (Any one person)	\$10,000	
								PERSONAL & ADV INJURY	\$1,000,000	
								GENERAL AGGREGATE \$2,000,		·
	POLICY X PRO-							PRODUCTS - COMP/OP AGG	\$2,000	,000
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Ь	<u> </u>			83UENAJ1418		0/1/2017	0/1/2010	(Ea accident) BODILY INJURY (Per person)	\$1,000 \$	,000
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	AND EMPLOYERS' LIABILITY  ANY PROPRIETOR/PARTNER/EXECUTIVE  Y / N	1						E.L. EACH ACCIDENT	\$500,00	nn
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	If yes, describe under DESCRIPTION OF OPERATIONS below									
	OLOGNI MORE. OF ENVIRONDED								<del>-</del>	
	CRIPTION OF OPERATIONS / LOCATIONS / VEHIC	•		·	le, may b	e attached if mo	re space is requir	ed)		
RE	E: Comprehensive Sanitary Sewer I	Evalua	atior	l						
Ge A	e Village of Orland Park, and their eneral Liability, on a primary and no waiver of subrogation applies under written contract, subject to policy ter	n-cor Gen	ntribu eral	itory basis, when agreed Liability and Workers Co	d in a v ompen	vritten contr sation in fa	act, subject vor of the ad	to policy terms, conditi	ons an	nd exclusions
CE	RTIFICATE HOLDER				CANC	ELLATION	<u></u>			
	Village of Orland Park Attn: Denise Domalewski, Co 14700 S. Ravinia Avenue Orland Park IL 60462	ntract	Adm	inistrator	SHO THE ACC	ULD ANY OF EXPIRATION ORDANCE WI	N DATE THE TH THE POLIC	ESCRIBED POLICIES BE CA REOF, NOTICE WILL B Y PROVISIONS.		
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### CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 7/25/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER HUB International Midwest Limited 55 East Jackson Boulevard Chicago IL 60604		CONTACT CSU Chicago  PHONE (A/C, No, Ext): 312-922-5000  E-MAIL ADDRESs: Csuchicago@hubinternational.com					
		INSURER(S) AFFORDING COVERAGE	NAIC#				
		INSURER A: Hartford Casualty Insurance Company	29424				
INSURED	RJNGROUP	INSURER B : Hartford Fire Insurance Company	19682				
RJN Group Inc.		INSURER c: Twin City Fire Insurance Company	29459				
200 W. Front Street Wheaton IL 60187		INSURER D: Continental Casualty Company	20443				
Wheaton it 60167		INSURER E:					
		INSURER F:					

COVERAGES CERTIFICATE NUMBER: 1043589248

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SU	BR POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMIT	'S
A	X COMMERCIAL GENERAL LIABILITY  CLAIMS-MADE X OCCUR		83UUNAJ1317	8/1/2017	8/1/2018	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence)	\$1,000,000 \$300,000
						MED EXP (Any one person)	\$10,000
						PERSONAL & ADV INJURY	\$1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:					GENERAL AGGREGATE	\$2,000,000
	POLICY X PRO- JECT LOC					PRODUCTS - COMP/OP AGG	\$2,000,000
	OTHER:						\$
В	AUTOMOBILE LIABILITY		83UENAJ1418	8/1/2017	8/1/2018	COMBINED SINGLE LIMIT (Ea accident)	\$1,000,000
	X ANY AUTO					BODILY INJURY (Per person)	\$
	ALL OWNED SCHEDULED AUTOS					BODILY INJURY (Per accident)	\$
	X HIRED AUTOS X NON-OWNED AUTOS					PROPERTY DAMAGE (Per accident)	\$
							\$
D	X UMBRELLA LIAB OCCUR		6012275414	8/1/2017	8/1/2018	EACH OCCURRENCE	\$5,000,000
	EXCESS LIAB CLAIMS-MADE					AGGREGATE	\$5,000,000
	DED X RETENTION \$ 10,000						\$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY		83WEPL1585	8/1/2016	8/1/2017	X PER OTH- STATUTE ER	
	ANY PROPRIETOR/PARTNER/EYECUTIVE	N/A				E,L, EACH ACCIDENT	\$500,000
1	(Mandatory in NH)					E.L. DISEASE - EA EMPLOYEE	\$500,000
	If yes, describe under DESCRIPTION OF OPERATIONS below					E,L. DISEASE - POLICY LIMIT	\$500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

RE: Comprehensive Sanitary Sewer Evaluation

The Village of Orland Park, and their respective officers, trustees, directors, employees and agents are included as additional insureds under General Liability, on a primary and non-contributory basis, when agreed in a written contract, subject to policy terms, conditions and exclusions A waiver of subrogation applies under General Liability and Workers Compensation in favor of the additional insureds listed, when agreed in a written contract, subject to policy terms, conditions and exclusions. Umbrella follows form.

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Village of Orland Park Attn: Denise Domalewski, Contract Administrator 14700 S. Ravinia Avenue Orland Park IL 60462

#### CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



February 27, 2017

Mr. John J. Ingram Infrastructure Maintenance Director Village of Orland Park 15655 Ravinia Avenue Orland Park, Illinois 60462

SUBJECT: PROPOSAL FOR PROFESSIONAL ENGINEERING SERVICES FOR

2017 ORLAND PARK STRATEGIC FLOW MONITORING

Dear Mr. Ingram:

RJN Group, Inc. (RJN) is pleased to submit this proposal to the Village of Orland Park (Village) for a strategic sanitary sewer flow monitoring project.

In 2015, RJN was selected by the Village for the Comprehensive Sanitary Sewer Evaluation consultant role to, "Provide assistance in developing and implementing a Village-wide comprehensive sanitary sewer system evaluation & repair program." This proposal is for flow monitoring services for Year-2 of the Village's Sanitary Sewer Inflow and Infiltration (I/I) Capital Improvement Program (CIP).

RJN, founded and headquartered in Wheaton, Illinois has completed numerous flow and rainfall monitoring and analysis projects of various sizes throughout the country, including dozens of projects within the greater Chicagoland area. We own and maintain an inventory of over 450 flow meters, have a data group dedicated data analysts, and provide all of the field and office services required to complete flow monitoring work in-house.

#### PROJECT UNDERSTANDING

Following the results of last year's flow monitoring program and discussions with Village staff, it has been determined that a strategic flow monitoring program will be beneficial to break up basins identified with severe I/I and to help guide the Village's Sanitary Sewer Inflow and Infiltration (I/I) Capital Improvement Program (CIP). We recommend 6 locations for flow monitoring to further analyze some of the worst basins identified in 2016 as well a location to further investigate evidence of downstream control near the MWRD interceptor. These locations are shown on the attached map.



Page 2 Mr. John J. Ingram February 27, 2017

Flow monitoring is a valuable tool that can be used to study a variety of problem areas and to gather data for a number of reasons. Because of this, the Village has decided that it is in their best interests to begin purchasing meters to build a Village fleet of meters. This proposal will include an allowance for the assistance with and purchase of three additional flow meters for the Village. This purchase, is in addition to the three that were purchased in 2016 will put the Village's meter fleet at 6 Village-owned meters, to be used in this project.

Using five flow meters to monitor the MWRD basin just south of 151st street will split up and provide baseline flow assessment of the Village's entire sewer system in the Short-Term Priority Area identified and submitted to the Metropolitan Water Reclamation District of Greater Chicago (MWRD) for the new Inflow and Infiltration Control Program (IICP). Having baseline data for this area will be beneficial so that future inspections required under the MWRD IICP can be quantitatively analyzed for flow reduction, and flow reduction efforts can be quantified following sewer rehabilitation activities in the area. This data will also be another method to check the accuracy of the 151st street lift station meter. The details of these meter locations are shown on the attached exhibit.

Using another meter near last year's meter site ORL-01-16 will help to assess the surcharging and severe downstream control exhibited due to the proximity to the MWRD interceptor. Continuing flow metering here can provide more accurate data in assessing the problem at this location. Data from these meters will be useful in determining capacity of sewers at MWRD connection points and could be used in the future to calibrate a hydraulic model.

RJN will be responsible for completing all flow metering and data analysis for the project. Key components of the project are:

- Assist with the selection and purchasing of three flow meters for the Village.
- Begin metering as soon as practical. Leave Village-owned meters in for six months.
- Analyze meter data develop a summary report and action items for follow-up inspections, studies, and rehabilitation.



Page 3 Mr. John J. Ingram February 27, 2017

#### PROJECT APPROACH

We have determined that 6 flow meters will be required to properly subdivide the focus areas for the 2017 study. A map showing the recommended flow meter locations and basin boundaries is attached.

#### **Meter Purchase**

RJN will coordinate the purchase of three additional Hach meters as part of this contract to bring the Village's fleet up to 6 Village-owned flowmeters. RJN will procure the meters on behalf of the Village and prepare them for installation.

#### **Installation and Calibration**

RJN field technicians will make an initial site evaluation visit to the targeted meter locations. Meter site investigations are necessary to evaluate hydraulic flow characteristics and sensor application to ensure that conditions are suitable for measuring flow rates accurately. The field crew will also review each site for access, traffic control, and overall site safety considerations. Site investigation results can then be used to determine the optimal location and appropriate flow metering technology for each meter site.

Site investigation reports containing the site information and digital photographs will be prepared for Village's approval prior to the installation of the metering equipment.

RJN's field crews are certified in confined space entry procedures and will complete confined space entry reports before each site visit through the duration of the project.

At the time of installation, manual depth and velocity readings are taken by the field technicians to confirm that the meter is reading accurately and to the manufacturer's operating standards. In addition to the initial calibration, RJN will return within two weeks of installation and at least once more during the flow-monitoring period to obtain a sufficient number of manual level and velocity readings for calibrations and for comparison to the meter collected data. A final set of measurements for calibration will be taken prior to meter removal.

#### **Data Maintenance & Handling**

RJN will maintain the data link required for remotely uploading the data from the installed



Page 4 Mr. John J. Ingram February 27, 2017

meters. Experienced data analysts will collect, consolidate, process, and perform a cursory review for data continuity and quality throughout the project. Data will be corrected and adjusted according to calibrations and flow balances among connecting sites. The data will be made available online to the Village for viewing.

RJN will utilize a host software support application program for remote wireless flow meter data collection. On a daily basis, all data recorded and stored in the meter will be collected by the host system. RJN will install, operate, and maintain the telemetry for this system. RJN Group will use a system employing client/server architecture to store all project flow data. On a daily basis, flow meter measurements, battery voltages, and other data entities will be forwarded to the server and immediately posted to the website for viewing by authorized parties.

The web module software will allow any networked computer (with appropriate authentication) access to the data stored using a common web browser (i.e. Microsoft Internet Explorer). The web module will enable the user to view the data and download the data in Microsoft Excel format. Web module users will not have access to modify the database or any operational system configurations.

#### **Data Analysis**

RJN will review the flow monitoring data at least twice a week during the "settling in" period and then once per week thereafter, and rainfall data after receipt. During the "settling in" period, crews will obtain necessary calibrations and make efforts to prevent sensor failure, minimize equipment maintenance issues, avoid excessive siltation, and configure the monitoring equipment to capture hydraulic variations or anomalies. The analysis of the data includes the identification of data gaps, hydraulic anomalies, and overall meter performance.

Any equipment service needs will be conveyed to RJN field service crews from our data analysis team. The data will be processed and edited in accordance with field confirmations to produce final data sets for each site. The final data will be posted when completed.

After the flow-monitoring period is complete, the data will be evaluated and used in developing an I/I analysis for the Village. In addition to addressing the results of the flow monitoring, the report will also include recommendations for reducing excess flows. The recommended study plan will help to identify areas of high I/I and provide guidance on determining future long term planning O&M programs for the MWRD IICP.

Recommendations on scheduling and budgeting further studies, including smoke testing,



Page 5 Mr. John J. Ingram February 27, 2017

manhole inspections, dyed water flooding, and televising inspection will be included.

#### PROPOSED SCOPE OF SERVICES

Our proposed scope of services is outlined as follows:

- 1. Procure three Hach FL-900 flow meters for the Village with expedited delivery.
- 2. Coordinate with Village for periodic data delivery from the Village's 5 rain gauges.
- 3. Investigate targeted sites for flow meter installation. Determine the meter sites that are hydraulically suitable for flow monitoring. Prepare Site Investigation Reports for approval by Village.
- 4. Prepare flow meters for installation. Install the 6 Village-owned flow meters at approved locations.
- 5. During installation, calibrate each flow meter by taking manual depth and velocity measurements and comparing with meter readings.
- 6. Provide standard traffic control measures (portable signs and cones) at each site in or near a roadway. If a higher level of traffic control is required, RJN crews will contact Village staff and request traffic control assistance.
- 7. Prepare the host system for handling the flow data and posting the data for viewing and access by Village staff. Review the data at least twice per week during the "settling in" period, once per week thereafter, and report any equipment service needs to the field crews.
- 8. Take calibration measurements on meters a second time within two weeks of installation. Utilize the calibrations to adjust the data and prepare final data sets.
- 9. Provide flow meter maintenance as necessary to keep equipment in proper operation for the duration of the monitoring period. Calibrate each meter at least one additional time within the flow monitoring period.
- 10. Procure spare parts and replacement equipment, such as batteries and desiccants, as needed to keep flow meters working and within operating standards.
- 11. Perform final calibration measurements at each site and remove the flow meters.



Page 6 Mr. John J. Ingram February 27, 2017

- 12. Process the collected raw data. Analyze the processed data for wet- and dry-weather flow patterns. Create hydrographs for each meter and determine wet-weather peaking factors at standard storm recurrence and durations for each basin.
- 13. Perform an inflow and infiltration analysis, including:
  - a. Inflow peaking factors;
  - b. Regression analysis for peaking factor prediction;
  - c. Scattergraphs and hydrographs; and
  - d. Capacity analysis including downstream control and surcharging assessment.
- 14. Provide the following information for the summary report:
  - a. Details on each flow meter and rain gauge location;
  - b. Summary of the flow and rainfall data collected;
  - c. Conclusions from the flow metering, including evidence of downstream control, hydraulic bottlenecks, and levels of infiltration and inflow (I/I);
  - d. Adequacy of the existing system to handle existing flows; and
  - e. Recommendations for the MWRD IICP high-priority area and other high priority areas as part of long term O&M program.
- 15. Consolidate information and prepare and pdf copies of a draft report to Village outlining results and recommendations.
- 16. Incorporate Village's comments and submit up to three copies of the final report to Village. Provide a pdf of the final report and a flash drive containing all digital documents and processed flow-monitoring data.
- 17. Provide project management services for the duration of the project. Attend up to two meetings with Village staff.

### ITEMS REQUESTED FROM VILLAGE

We request the following items from Village:

- 1. Access to the Village's five rain gauges for periodic data deliveries from Village for each rain gauge, at 15-minute interval data, at a minimum. Village will remain responsible for rain gauge maintenance and data collection.
- 2. Assistance with traffic control where needed in high traffic locations.



Page 7 Mr. John J. Ingram February 27, 2017

#### **SCHEDULE**

Flow meters are typically installed in March/April. It is our goal to have all meters installed within three weeks of project approval.

The key schedule parameters for this project are as follows:

- Order meters within one week of a notice to proceed.
- The site investigations will begin within two weeks of a notice to proceed.
- Flow meters will be installed within two weeks of site investigations, based on purchased meter delivery.
- The flow monitoring period will begin after the last meter is successfully installed.
- The flow monitoring periods is 6 months. The draft report will be submitted to Village within three months of the end of the flow-monitoring period.
- The final report will be submitted within two weeks of receipt of Village comments on the draft report.

#### PROPOSED FEE

This scope of services will be invoiced on a unit price basis per the following fee schedule. The total cost for the recommended program is **\$82,300**.

Task #	Task	Quantity	Unit	\$/Unit	Total
1001	Site Investigations (6 meters)	6	meter	\$ 350	\$ 2,100
1002	Meter Preparation and Installation	6	meter	\$ 900	\$ 5,400
1003	Long-Term Meter Maint., Cals, & Review (6 met., 6 mos)	36	meter-mo.	\$ 925	\$33,300
1004	I/I Analysis, Draft/Final Report	1	LS	\$ 8,500	\$ 8,500
1005	Project Management and Meetings	1	LS	\$ 3,500	\$ 3,500
1006	Meter Purchase*	1	Cost+5%	\$29,500	\$ 29,500
				TOTAL:	\$ 82,300

<sup>\*</sup> For purchase of 3 meters including 5% markup for purchase coordination

It is our pleasure to submit this proposal to the Village of Orland Park. Please feel free to contact Joe at (630) 682-4700 x337 if you would like to discuss this proposal in detail. We are looking forward to the opportunity to continue working with Village on this important program.



Page 8 Mr. John J. Ingram February 27, 2017

Sincerely,

RJN Group, Inc.

Joseph M. Sullivan Project Manager

Enclosure

Zachary J. Matyja, P.E.

fool of Athy

Client Manager





