Agenda Item <u>#3K-2</u>

PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS <u>AGENDA ITEM SUMMARY</u>

Meeting Date: October 20, 2015

Consent [X] Public Hearing [] Regular []

Department: Water Utilities Department

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Consultant Services Authorization (CSA) No. 9 for the GL09 Glades Infiltration/Inflow Projects Phase 3 (Project) with Hazen and Sawyer, P.C. in the amount of \$161,820.

Summary: On June 3, 2014, the Board of County Commissioners (BCC) approved the Water Utilities Department (WUD) Engineering/Professional Services Contract with Hazen and Sawyer, P.C. (R2014-0821). CSA No. 9 provides for video inspections and rehabilitation recommendations for 30,000 linear feet of gravity sewer main lines in the City of Belle Glade. In addition, CSA No. 9 includes the finalization of a Sanitary Sewer Survey (Survey) for the Western Region of the County (Belle Glade, Pahokee and South Bay). The Small Business Enterprise (SBE) participation goal established by the SBE Ordinance (R2002-0064) is 15% overall. The contract with Hazen and Sawyer, P.C. provides for SBE participation of 22%. CSA No. 9 includes 25.52% overall participation. The cumulative SBE participation is 32.81% overall. Hazen and Sawyer, P.C. is a local Palm Beach County company. This project is included in the FY16 Capital Improvement Plan adopted by the BCC. (WUD Project No. 15-024) <u>District 6</u> (MRE)

Background and Justification: WUD operates and maintains the wastewater collection system in the City of Belle Glade. The existing system has shown signs of infiltration and inflow. The scope of the Project is to complete a thorough video inspection of 30,000 linear feet of gravity sewer pipes, identification of specific defects, and development of recommendations to rehabilitate or repair severe defects identified during the inspection. CSA No. 9 also includes the finalization of the Survey report for the Western Region of the County. This work is needed to restore the service life, efficiency and effectiveness of the wastewater collection systems in the Cities of Belle Glade, Pahokee and South Bay.

Attachments:

- 1. Location Map
- 2. Two (2) Original Consultant Services Authorization No. 9

Recommended By:	Jim Stiles Department Director	9-28-15 Date
Approved By:	Assistant County Administrator	10 5 15 Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2016	2017	2018	2019	2020
Capital Expenditures External Revenues Program Income (County) In-Kind Match County CCRT Funds NET FISCAL IMPACT	<u>\$161,820</u> <u>\$0</u> <u>0</u> <u>0</u> <u>0</u> <u>\$161,820</u>		0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
# ADDITIONAL FTE POSITIONS (Cumulative)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Budget Account Fu No.:	nd <u>4011</u> Dept	<u>721</u> Unit	<u>W031</u>	Object <u>654</u>	7

Is Item Included in Current Budget?

Yes X No

Reporting Category <u>N/A</u>

B. Recommended Sources of Funds/Summary of Fiscal Impact:

One (1) time expenditure from user fees, connection fees, and balance brought forward.

C.	Department Fiscal Review:	Delua movert

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Development and Control Comments:

OF/MB

B. Legal Sufficiency:

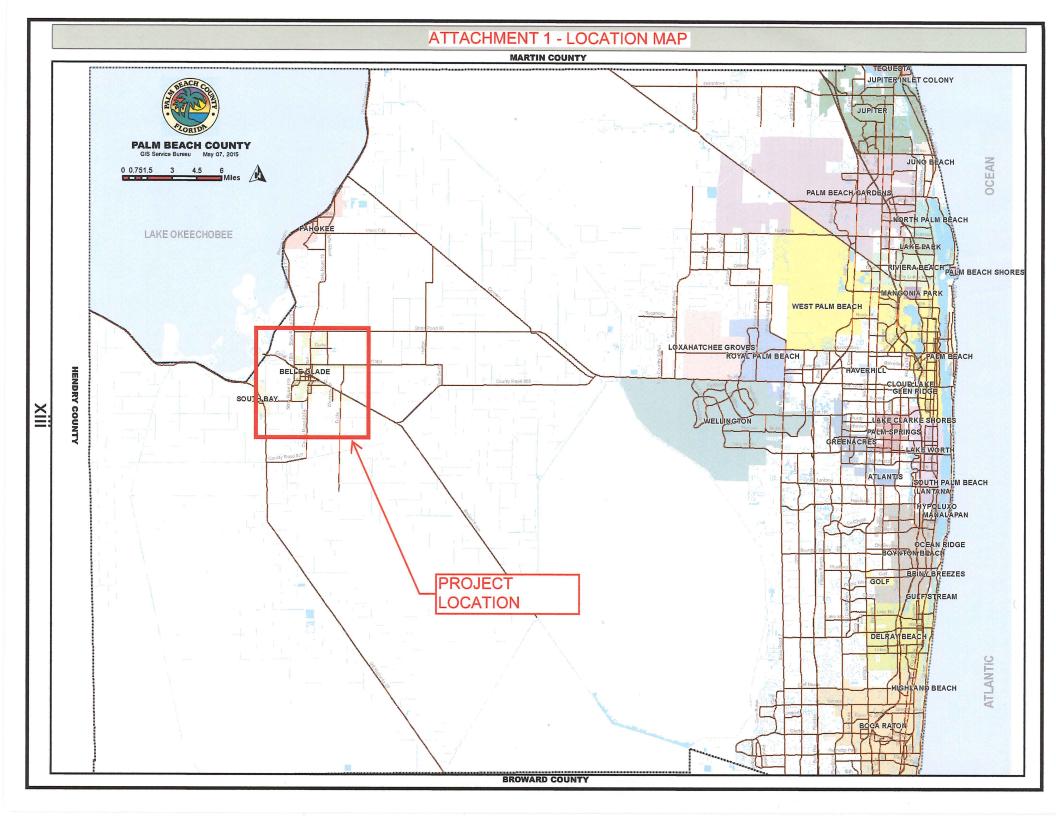
30/15 Assistant County Attorney

C. Other Department Review:

Department Director

Contract Development and Control Biohectife 9-19-15-

This summary is not to be used as a basis for payment.



CONSULTANT SERVICES AUTHORIZATION NO. 9

Project Title GL09 Glades Infiltration / Inflow Projects – Phase 3

Project No. WUD 15-024

Budget Line Item No. 4011-721-W031-6547

District No.: 6

THIS AUTHORIZATION No. <u>9</u> to the Contract for Consulting/Professional Services dated <u>June</u> <u>3, 2014 (R2014-0821)</u>, by and between Palm Beach County and the Consultant identified herein, is for the Consultant Services described in Item 3 of this Authorization. The Contract provides for <u>22.00%</u> SBE participation overall. This Consultant Services Authorization includes <u>25.52</u>% overall participation. The cumulative SBE participation, including this authorization is <u>32.81</u>% overall. Additional authorizations will be utilized to meet or exceed the stated overall participation goal.

- 1. CONSULTANT: Hazen and Sawyer, P.C.
- 2. ADDRESS: 2101 N.W. Corporate Boulevard, Suite 301, Boca Raton, FL 33431
- Description of Services to be provided by the Consultant: Gravity sewer lines in Belle Glade will be inspected with video cameras to assess pipe conditions.
 Videos will be reviewed and a description of observations prepared including, list of problem areas such as cracks, root damage, separated joints and other pipe defects.
 Recommendations for corrective measures will be developed with planning level cost estimates and a report summarizing the videos performed to date.

See ATTACHMENT A.

4. Services completed by the Consultant to date (Summary and Status of Authorizations):

See ATTACHMENT E.

- 5. Consultant shall begin work promptly on the requested services.
- 6. The compensation to be paid to the Consultant for providing the requested services shall be:
 - A. Computation of time charges plus expenses, not to exceed \$<u>161,820</u>
 - B. Fixed price of \$ _____ n / a_____
- 7. This Authorization may be terminated by the County without cause or prior notice. In the event of termination not the fault of the Consultant, the Consultant shall be compensated for all services performed through the date of termination, together with reimbursable expenses (if applicable) then due.

9

Project Title GL09 Glades Infiltration / Inflow Projects – Phase 3

- SBE participation is included in Attachment D under this Authorization. The attached 8. Schedule 1 defines the SBE applied to this Authorization and Schedule 2 establishes the SBE contribution from each sub-consultant (Letter of Intent to perform as an SBE).
- 9. EXCEPT AS HEREBY AMENDED, CHANGED OR MODIFIED, all other terms, conditions and obligations of the Contract dated June 3, 2014 remain in full force and effect.

IN WITNESS WHEREOF, this Authorization is accepted, subject to the terms, conditions and obligations of the aforementioned Contract.

PALM BEACH COUNTY, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA

Sharon R. Bock, Clerk & Comptroller, Palm Beach County

ATTEST:

Signed:

Signed:

Palm Beach County,

Shelley Vana, Mayor

Board of County Commissioners

Typed Name:

Deputy Clerk

Date

Approved as to Form and Legal Sufficiency

Signed: _

Typed Name:

County Attorney

ATTEST

Witness

Kurt A. Pfeffer, Senior Associate (Name and Title)

CONSULTANT: Hazen and Sawyer, P.C.

IM in

Albert Muniz, Vice President (Name and Title)

August 19, 2015

Date

LIST OF ATTACHMENTS

Project No. W	/ UD _15-024	Consultant Services Authorization No.	9
Project Title	GL09 Glades Infiltra	tion / Inflow Projects – Phase 3	

ATTACHMENT – A	Scope of Work
ATTACHMENT – B	Budget Summary
ATTACHMENT – C	Project Schedule
ATTACHMENT – D	SBE Schedule 1, 2, 3a, and 4
ATTACHMENT – E	Authorization Status Report – Summary and Status of Authorizations
ATTACHMENT – F	Authorization Status Report – Summary of SBE Tracking
ATTACHMENT – G	Location Map

ATTACHMENT – A

CONSULTANT SERVICES AUTHORIZATION NO. 9

PALM BEACH COUNTY WATER UTILITIES DEPARTMENT ENGINEERING/PROFESSIONAL SERVICES

SCOPE OF WORK FOR

INTRODUCTION

Palm Beach County (COUNTY) entered into an agreement entitled Contract for Engineering/ Professional Services - Palm Beach County Water Utilities Department Project Number WUD <u>14-002</u> (CONTRACT) with <u>Hazen and Sawyer, P.C. (CONSULTANT</u>) to provide engineering services for various general activities on June 3, 2014 with an effective date of June 4, 2014 (Reference Document <u>R2014-0821</u>). This Consultant Service Authorization will be performed under that CONTRACT.

This Consultant Services Authorization encompasses providing services related to the video inspection and review with recommendations for corrective actions within the Western Region wastewater service area.

BACKGROUND

The Palm Beach County Water Utilities Department (PBCWUD) presently owns and operates the Western Region Wastewater Treatment Facility which provides wastewater collection for the Glades area. This area commonly known as the Glades Region encompasses the Cities of Belle Glade, Pahokee, and South Bay. A Wastewater Master Plan was recently completed (September 2014) for this area which identified infiltration and inflow (I&I) concerns. This project has been established to address excess flows from I&I in critical areas as defined by the County and identified in the Master Plan.

- <u>I-I Analysis</u> Analysis of dry and wet weather flows both for the overall system and for individual pump station collection areas (basins). System-level analysis allows an overall characterization of the system to illustrate the approximate proportions of infiltration, inflow, and wastewater. Basin-level analysis allows the prioritization of individual pump station collection areas by I-I severity so that follow-up inspection work can be focused on those areas where the greatest I-I reduction potential exists.
- <u>Sanitary Sewer Evaluation Survey (SSES)</u> Detailed investigation to develop a gravity sewer rehabilitation plan. Such investigation is designed to permit the identification of specific system defects to be repaired and typically involves such activities as night flow isolation, closed-circuit television inspection of sewer mains and laterals, manhole inspection, and smoke testing to identify sources of inflow.

<u>Rehabilitation</u> – Implementation of the rehabilitation plan. This phase typically includes procurement and oversight of specialty sewer contractors to perform repair of mains, laterals, and manholes. Repairs would include traditional excavated repairs as well as "trenchless" repairs such as lining and chemical grouting where warranted. Rehabilitation may also include post-rehabilitation flow monitoring to document the flow reductions achieved.

At this time, the PBCWUD has elected to initiate SSES activities in those pump station collection areas (basins) identified as priorities in the Master Plan. To facilitate implementation of the work, SSES work will be divided into multiple Consultant Services Authorizations (CSAs). The scope of work for this CSA will consist of video inspection and video review of priority areas within Belle Glade. Due to the amount of area to be inspected, inspection of lines have been divided into two geographical areas. Part 1, which was included in a previous authorization, includes a total of approximately 70,000 linear feet with focus in the Pahokee and South Bay area. The second part of this evaluation addresses gravity lines within the Belle Glade service area and is the focus of this authorization. Gravity line inspections will be prioritized based on discussions with COUNTY staff for the areas of Belle Glade and South Bay.

The scope of work outlined herein allows for the performance of the following tasks:

- Task 1. Video inspection and survey of gravity sewer mains
- Task 2. Video review and development of recommendations
- Task 3. Final report with rehabilitation plan

SCOPE OF SERVICES

CONSULTANT shall provide engineering services to conduct a phased SSES as described herein. In an effort to minimize the total cost of the work, CONSULTANT has developed a collaborative approach that relies on the performance of some subtasks by COUNTY staff.

Task 1 – Video inspection and survey of gravity sewer mains

CONSULTANT shall coordinate and schedule video inspection activities to be performed by a subcontractor. The subcontractor will perform the following sub-task:

• Cleaning and video inspection of up to 30,000 linear feet of gravity sewer mains. Mains are mostly 8-inch, but there may be a limited number of larger diameter mains, up to 30-inches.

The following sub-tasks will be performed by PBCWUD:

- Appoint one contact person, and one backup person, for coordination of activities and for specific assistance as may be required to CONSULTANT including:
 - \checkmark Identify areas to be inspected and provide a sewer atlas showing manhole numbers.
 - \checkmark Notify and coordinate with local police and traffic authorities as required.
 - ✓ Assist with providing access to the work site and all right-of-ways with sufficient area for the placement of personnel and equipment, including resident coordination for access to rear-yard easements where required.

- \checkmark Locate and expose any manhole.
- ✓ Relieve system surcharging, if required, in advance of inspection activities.
- Assist in coordinating the export of the Pipeline Assessment Certification Program (PACP) compliant database to the PBCWUD software.

Deliverable(s):

1.1 – Video inspection logs and CDs, as well as a PACP compliant electronic deliverable capable of performing the National Association of Sewer Service Companies (NASSCO) export option for uploading to the PBCWUD's GraniteNet software.

Schedule:

Field work will be completed and deliverables submitted within 210 calendar days from Notice to Proceed.

Assumptions:

The following assumptions were used in development of this scope of services:

- The Video inspection subcontractor will be compensated on a unit cost basis using the pay items typically shown on I/I work. The technical specifications will identify a list of items on a unit price basis, and where necessary, on an individual basis (e.g., for bypass pumping). Measurement and payment considerations for the overall subcontractor budget as well as individual pay items will be listed in detail in the technical specifications as typically done for I/I work.
- The video sub-contractor will clean sewer lines to remove roots, grease and / or tuberculation as needed to obtain a clear visual. Pipe sections will be visually surveyed by means of closed circuit television. In general, the survey will be performed from manhole to manhole section at a time when flow can be controlled. Digital photographs will be taken as requested by COUNTY / CONSULTANT. The sub-contractor television equipment operator shall be certified under the NASSCO PACP. The data collected will be a software that uses the NASSCO PACP Protocol and can perform a "PACP Export" (in the inspection software program) to provide a PACP Export File with associated videos.
- In addition to required PACP fields, the video inspection subcontractor will collect the following additional fields characterized under PACP as "optional"
 - ✓ Field 2 Owner
 - ✓ Field 4 Drainage Area
 - ✓ Field 9 Time
 - ✓ Field 29 Total Length

- ✓ Field 34 Purpose
- ✓ Field 37 Weather
- ✓ Field 41 Project

Task 2 – Video review and development of recommendations

The following sub-tasks will be performed by the CONSULTANT:

- View and analyze videotapes provided by the video inspection subcontractor.
- Record and document the location and nature of obstructions such as roots, dropped joints, and protruding service connections; as well as broken pipe, cracks, separated joints, and other pipe defects that may permit groundwater infiltration. Record observations on evaluation forms.
- Identify "suspect" laterals to be inspected at a later time using specialized equipment. During inspection of the mains the camera will stop and pan the laterals to look for steady, clear flow indicative of infiltration. Actual television inspection internal to the laterals will not be performed at this time. Based on the results of this inspection of the mains, a more informed decision can be made concerning the need for a focused lateral inspection program.
- Develop summary tables to record the results of the video review along with prioritized rehabilitation recommendations and planning level cost estimates where warranted.

Deliverable(s):

2.1 – Summary recording the results of video review

Schedule:

Video review will be completed and deliverables submitted within 60 calendar days following completion of the video inspection described under Task 1.

Assumptions:

The following assumptions were used in development of this scope of services:

- Fee and schedule are based on the review of video for up to 30,000 linear feet of gravity sewer mains.
- PACP-certified personnel will perform quality assurance review of video.

Task 3 – Final report with rehabilitation plan

The following sub-tasks will be performed by the CONSULTANT:

- Develop a report to document data collection and analysis tasks completed throughout the project including flow monitoring, manhole inspection, smoke testing, and video inspection and review. Estimate flow rates associated with I-I sources, confirm preliminary repair recommendations, and present recommendations and a planning level repair cost estimate.
- Prioritize the recommended rehabilitation work based on cost-effectiveness and other factors. Rehabilitation of a collection system main line, manhole or service line is typically termed "cost-effective" when the cost of rehabilitation to remove a given amount of extraneous flow is less than the cost of continuing to transport, treat, and dispose of that same amount of extraneous flow over a selected time period. The costeffectiveness analysis involves the following steps –
 - ✓ Estimate the cost of rehabilitation of each main line, manhole, or service line defect.
 - Calculate the approximate cost to transport, treat, and dispose of the extraneous flow associated with that defect.

✓ Compare the costs developed in the previous two steps and determine the "payback period" of the repair (the number of years to recover the repair cost).

Other factors are considered in addition to cost-effectiveness. Factors such as structural condition, public nuisance, health hazards, system hydraulics, and operation and maintenance demand may become the determining factor as to whether a given repair is assigned a higher priority for rehabilitation.

- Generate rehabilitation summary tables that identify each defect and provide the following associated information.
 - \checkmark Collection basin number.
 - ✓ Upstream and downstream manhole number.
 - \checkmark Pipe length, diameter, depth and material.
 - ✓ Defect description, I-I quantification, recommended repair method, estimated repair cost, and estimated payback period.
- Sort and organize the rehabilitation summary tables by drainage area, repair category, and payback period. Rehabilitation summary tables can be used to develop contractor task assignments to be awarded in the rehabilitation program.
- Provide <u>6</u> copies of draft report for review by PBCWUD.
- Meet with PBCWUD to review draft report.
- Provide <u>10</u> bound copies and one electronic copy (PDF format) of the final report.

The following sub-tasks will be performed by PBCWUD:

- Respond to information requests by CONSULTANT as required.
- Review CONSULTANT's draft report and provide written comments.
- Meet with CONSULTANT to review comments on draft report.
- It is assumed that the COUNTY will provide a single consolidated set of review comments on the draft report.

<u>Deliverable(s)</u>:

1.1 Six (6) bound, printed copies of the draft report. Ten (10) bound, printed copies and one (1) CD containing an electronic copy (PDF format) of the final report.

COMPENSATION

Compensation will be on a time charges plus expenses for a not to exceed amount of \$161,820.00 (See Attachment B) and billed on a percent complete basis. It should be noted that \$65,250.00 of the total fee are related to non-S/MBE video sub-consultant as shown below:

Firm	Fee	Percentage
Prime consultant – Hazen and Sawyer	\$55,260.00	34.15%
Sub-consultant – Non S/MBE – Layne In-liner, LLC	\$65,250.00	40.33%
S/MBE C Solutions, Inc.	\$41,310.00	25.52%
Totals	\$161,820.00	100.00%

** Sub-consultant quotes are included in attachment B***

SBE PARTICIPATION

1. SCHEDULE 3(A) – Professional Services Activity Report

This form shall be submitted by the prime contractor with each payment application when SBE and/or M/WBE sub-consultants are utilized in the performance of the contract. This form shall contain the names of all SBE and M/WBE sub-consultants, specify the sub-consultants dollar amount for each sub-consultants and show amount drawn and payments to date issued to sub-consultants.

2. SCHEDULE 4 – SBE-M/WBE Payment Certification

A schedule 4 for each SBE and/or M/WBE sub-consultant shall be completed and signed by the proposed SBE and/or M/WBE after receipt of payment from the prime. When applicable, the prime shall submit this form with each application submitted to the county for payment to document payment issued to a sub-consultant in the performance of the contract.

SBE participation is included in the **ATTACHMENT F** under this authorization. The attached Schedule 1 defines the SBE applied to this CSA/Contract and Schedule 2 establishes the SBE contribution from each subcontractor (Letter of Intent to perform as an SBE).

ATTACHMENT – B Budget Summary

					В	UDGET SUN	IMARY for C	SA-9			
Task No.	Description	VP	Senior Associate	Associate	Senior Principal Engineer	Principal Engineer	Field Coordinator	Designer	Office Support	Total Labor	Sub- Consultant
1.0	Video inspection and survey of gravity sewer mains	4	8	0	0	8	8	0	4	32	
	C Solutions, Inc. – Task 1										\$3,250.00
	Layne In-Liner, LLC – Task 1										\$65,250.00
2.0	Video review and development of recommendations	4	20	0	0	16	20	0	12	72	
	C Solutions, Inc. – Task 2										\$13,600
3.0	Final report with rehabilitation plan	64	100	0	0	40	8	0	40	252	
	C Solutions, Inc. – Task 3										\$24,460.00
	SUB-TOTAL Hours	72	128	0	0	64	36	0	. 56	356	\$106,560.00
	Labor Raw Costs	\$70	\$63	\$54	\$50	\$43	\$37	\$30	\$22		
	Labor Multiplier	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		
	Labor Sub-Total	\$15,120	\$24,192	\$0	\$0	\$8,256	\$3,996	\$0	\$3,696		
	Labor Total									\$55,260	
							an an an an Araba an Charles an Araba an A Araba an Araba an Arab				
	Sub-consultant Labor Total										\$106,560
	Sub-consultant Multiplier										1.0
	Sub-consultant Total			والمحتوية والمحتوية والمحتوي والمحتوي			Tu				\$106,560
	Reimbursable Expenses										\$0
	Project Total					Energia de la composición de la composi Composición de la composición de la comp					\$161,820

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C Solutions Scope of Services Hazen and Sawyer, P.C. Palm Beach County Utilities Department (H&S CSA9) Glades Infiltration / Inflow Projects – Phase 3

Scope of Services

I. BACKGROUND

Palm Beach County (COUNTY) entered into an agreement entitled Contract for Engineering/ Professional Services - Palm Beach County Utilities Department Project No.: WUD 14-002 (CONTRACT) with Hazen and Sawyer, P.C. (CONSULTANT) to provide engineering services for various general activities on June 3, 2014 with an effective date of June 4, 2014 (Reference Document R2014-0821). This Consultant Service Authorization will be performed under that CONTRACT.

This Consultant Services Authorization encompasses providing services related to Glades Sanitary Sewer Evaluation Survey (SSES) – video inspection and review with recommendations for corrective actions within the Western Region wastewater service area. C Solutions, Inc. will assist the CONSULTANT in the providing the following services for Consultant Services Authorization NO. 9 (CSA No. 9).

II. SCOPE OF SERVICES

C Solutions will perform the scope of services as described herein.

Task 1 Video inspection of gravity sewer mains

The CONSULTANT shall coordinate and schedule video inspection activities including the cleaning and video inspection of up to 30,000 linear feet of gravity sewer mains. C Solutions will provide assistance to the CONSULTANT in the planning and scheduling video inspection sections, coordination of the video inspection services and coordination with the export of data into the required format.

Task 2 Video review and development of recommendations

C Solutions will assist the CONSULTANT in the following tasks:

- View and analyze videotapes provided by the video inspection subcontractor.
- Record and document the location and nature of obstructions such as roots, dropped joints, and protruding service connections; as well as broken pipe, cracks, separated joints, and other pipe defects that may permit groundwater infiltration. Record observations on evaluation forms.

Solutions Inc.

A-1

- Identify "suspect" laterals to be inspected at a later time using specialized equipment. During inspection of the mains the camera will stop and pan the laterals to look for steady, clear flow indicative of infiltration. Actual television inspection internal to the laterals will not be performed at this time. Based on the results of this inspection of the mains, a more informed decision can be made concerning the need for a focused lateral inspection program.
- Develop summary tables to record the results of the video review along with rehabilitation recommendations and planning level cost estimates where warranted.

Task 3 Final report with rehabilitation plan

C Solutions will assist the CONSULTANT with the following tasks for the preparation of the final report and rehabilitation plan:

- Assist in the development of a report to document data collection and analysis tasks completed throughout the project including flow monitoring, manhole inspection, smoke testing, and video inspection and review. Estimate flow rates associated with I-I sources, confirm preliminary repair recommendations, and present recommendations and a planning level repair cost estimate.
- Assist with prioritizing the recommended rehabilitation work based on cost-effectiveness and other factors. Rehabilitation of a collection system main line, manhole or service line is typically termed "cost-effective" when the cost of rehabilitation to remove a given amount of extraneous flow is less than the cost of continuing to transport, treat, and dispose of that same amount of extraneous flow over a selected time period. The cost-effectiveness analysis involves the following steps:
 - Estimate the cost of rehabilitation of each main line, manhole, or service line defect.
 - Calculate the approximate cost to transport, treat, and dispose of the extraneous flow associated with that defect.
 - Compare the costs developed in the previous two steps and determine the "payback period" of the repair (the number of years to recover the repair cost).

Other factors are considered in addition to cost-effectiveness. Factors such as structural condition, public nuisance, health hazards, system hydraulics, and operation and maintenance demand may become the determining factor as to whether a given repair is assigned a higher priority for rehabilitation.

- Assist in the preparation of rehabilitation summary tables that identify each defect and provide the following associated information.
 - Collection basin number.
 - Upstream and downstream manhole number.
 - Pipe length, diameter, depth and material.
 - Defect description, I-I quantification, recommended repair method, estimated repair cost, and estimated payback period.

Solutions Inc.

A-2

 Assist in the sorting and organization of rehabilitation summary tables by drainage area, repair category, and payback period. Rehabilitation summary tables can be used to develop contractor task assignments to be awarded in the rehabilitation program under a subsequent phase of work.

III. ASSUMPTIONS

The Scope of Work described herein is based upon the following assumptions:

The assumptions listed in the CONSULTANT's scope of services for CSA No. 9.

IV. TIME OF COMPLETION

The Notice to Proceed (NTP) defines the official commencement of the C Solutions' contract. The CONSULTANT's NTP from CLIENT will define the date of Notice to Proceed (NTP). The following schedule is based on the notice to proceed (NTP). All days are defined as calendar days.

Task Description	Completion (Days from NTP)
Task 1 – Video Inspection ¹	100
Task 2 – Video Review and Recommendations Assistance	160
Task 3 – Final report Assistance	210

¹ The days for Task 1 are estimated and may vary depending on weather and receipt of data requests...

IV. PROPOSED COMPENSATION

C Solutions shall perform the services defined in this scope of work for a lump sum fee of \$41,310. Invoices will be submitted to the CONSULTANT monthly and define the percent complete with each of the below tasks.

Task Description	Not to Exceed Amount
Task 1 – Video Inspection ¹	\$3,250
Task 2 – Video Review and Recommendations Assistance	\$13,600
Task 3 – Final report Assistance	\$24,460
TOTAL	\$41,310



BID FORM LAYNE INLINER, LLC

LAYNE Cost Estimate - Phase 3

Description	Estimated Quantity	Units	Layne Unit Bid Price	Layne Total
Sewer main cleaning and TV inspection (8-inch through 12-inch)	28,000	L.F.	\$1.53	\$42,840.00
Sewer main cleaning and TV inspection (15-inch through 21-inch)	1,500	L.F.	\$2.00	\$3,000.00
Sewer main cleaning and TV inspection (24-inch through 30-inch)	500	L.F.	\$5.00	\$2,500.00
Mechanical root or grease removal (12-inch and smaller)	500	L.F.	\$0.50	\$250.00
Mechanical root or grease removal (15-inch through 21-inch)	250	L.F.	\$0.50	\$125.00
Mechanical root or grease removal (24-inch through 30-inch)	250	L.F.	\$0.50	\$125.00
Mechanical tuberculation/concrete removal (12- inch and smaller)	200	L.F.	\$20.00	\$4,000.00
Mechanical tuberculation/concrete removal (15- inch through 21-inch)	200	L.F.	\$20.00	\$4,000.00
Mechanical tuberculation/concrete removal (24- inch through 30-inch)	200	L.F.	\$20.00	\$4,000.00
Bypass pumping (6-inch through 10-inch sewer)	3	EA	\$50.00	\$150.00
Bypass pumping (12-inch and 15-inch sewer)	2	EA	\$75.00	\$150.00
Bypass pumping (18-inch through 21-inch sewer)	2	EA	\$75.00	\$150.00
Bypass pumping (24-inch through 30-inch sewer)	1	EA	\$100.00	\$110.00
Maintenance of traffic - residential street	60	EA	\$50.00	\$3,000.00
Maintenance of traffic - FDOT or City arterial roadway	5	EA	\$50.00	\$250.00
Work in rear-yard easement (items 1 through 3)	2	EA	\$300.00	\$600.00
	Sewer main cleaning and TV inspection (8-inch through 12-inch) Sewer main cleaning and TV inspection (15-inch through 21-inch) Sewer main cleaning and TV inspection (24-inch through 30-inch) Mechanical root or grease removal (12-inch and smaller) Mechanical root or grease removal (15-inch through 21-inch) Mechanical toot or grease removal (24-inch through 30-inch) Mechanical tuberculation/concrete removal (12- inch and smaller) Mechanical tuberculation/concrete removal (15- inch through 21-inch) Mechanical tuberculation/concrete removal (15- inch through 21-inch) Mechanical tuberculation/concrete removal (24- inch through 21-inch) Bypass pumping (6-inch through 10-inch sewer) Bypass pumping (12-inch and 15-inch sewer) Bypass pumping (18-inch through 21-inch sewer) Bypass pumping (24-inch through 30-inch sewer) Maintenance of traffic - residential street Maintenance of traffic - FDOT or City arterial roadway	Sewer main cleaning and TV inspection (8-inch through 12-inch)28,000Sewer main cleaning and TV inspection (15-inch through 21-inch)1,500Sewer main cleaning and TV inspection (24-inch through 30-inch)500Mechanical root or grease removal (12-inch and smaller)500Mechanical root or grease removal (15-inch through 21-inch)500Mechanical root or grease removal (15-inch through 21-inch)250Mechanical root or grease removal (24-inch through 30-inch)250Mechanical tober or grease removal (24-inch through 30-inch)200Mechanical tuberculation/concrete removal (12- inch and smaller)200Mechanical tuberculation/concrete removal (15- inch through 21-inch)200Mechanical tuberculation/concrete removal (24- inch through 30-inch)200Bypass pumping (6-inch through 10-inch sewer)3Bypass pumping (12-inch and 15-inch sewer)2Bypass pumping (18-inch through 30-inch sewer)1Maintenance of traffic - residential street60Maintenance of traffic - FDOT or City arterial roadway5	Sewer main cleaning and TV inspection (8-inch through 12-inch)28,000L.F.Sewer main cleaning and TV inspection (15-inch through 21-inch)1,500L.F.Sewer main cleaning and TV inspection (24-inch through 30-inch)500L.F.Mechanical root or grease removal (12-inch and smaller)500L.F.Mechanical root or grease removal (15-inch through 21-inch)250L.F.Mechanical root or grease removal (24-inch through 21-inch)250L.F.Mechanical root or grease removal (24-inch through 30-inch)250L.F.Mechanical tuberculation/concrete removal (12- inch and smaller)200L.F.Mechanical tuberculation/concrete removal (15- inch through 21-inch)200L.F.Mechanical tuberculation/concrete removal (24- inch through 30-inch)200L.F.Mechanical tuberculation/concrete removal (24- inch through 30-inch)200L.F.Mechanical tuberculation/concrete removal (24- inch through 30-inch)200L.F.Bypass pumping (6-inch through 10-inch sewer)3EABypass pumping (12-inch and 15-inch sewer)2EABypass pumping (18-inch through 21-inch sewer)2EAMaintenance of traffic - residential street60EAMaintenance of traffic - FDOT or City arterial roadway5EA	Sewer main cleaning and TV inspection (8-inch through 12-inch)28,000L.F.\$1.53Sewer main cleaning and TV inspection (15-inch through 21-inch)1,500L.F.\$2.00Sewer main cleaning and TV inspection (24-inch through 30-inch)500L.F.\$2.00Mechanical root or grease removal (12-inch and smaller)500L.F.\$0.50Mechanical root or grease removal (15-inch through 21-inch)500L.F.\$0.50Mechanical root or grease removal (15-inch through 21-inch)250L.F.\$0.50Mechanical root or grease removal (24-inch through 30-inch)250L.F.\$0.50Mechanical toot or grease removal (24-inch through 30-inch)200L.F.\$20.00Mechanical tuberculation/concrete removal (15- inch through 21-inch)200L.F.\$20.00Mechanical tuberculation/concrete removal (24- inch through 21-inch)200L.F.\$20.00Mechanical tuberculation/concrete removal (24- inch through 30-inch)200L.F.\$20.00Bypass pumping (6-inch through 10-inch sewer)3EA\$50.00Bypass pumping (12-inch and 15-inch sewer)2EA\$75.00Bypass pumping (12-inch and 15-inch sewer)1EA\$100.00Maintenance of traffic - residential street60EA\$50.00Maintenance of traffic - FDOT or City arterial roadway5EA\$50.00

2015 08-12 - Layne Backup - 30K LF.xls, Glades_Layne 8/12/2015

BP-1

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PROJECT SCHEDULE

The completion dates for this work will be as follows (starting from CONSULTANT'S receipt of Notice-to-Proceed).

Engineering Services	Estimated Calendar Days to Complete
Task 1 – Video Inspection / Survey	100 days ^a
Task 2 – Video review	160 days
Task 3 – Final report	~ 210 days
Draft report 190 days from notice to proceed	
Final report 21 days from receipt of written co	mments
Total Time (with task overlap)	210 days

A - Days are estimated and may vary depending on weather and receipt of data requests.

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Rev. 12-09-14

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Attachment – D Schedule 1 LIST OF PROPOSED SBE-M/WBE CONSULTANT/SUB-CONSULTANTS

PROJECT NAME:	NAME: GL09 Glades Infiltration / Inflow Projects – Phase 3			PROJECT N	10.: WU	D 15-024	
NAME OF PRIME CO	ONSULTANT:	Hazen and Sawyer, P.C.	ADDRESS:	SS: 2101 NW Corporate Blvd., Suite 301, Boca Raton, FL 33431			
CONTACT PERSON	: Albert Muniz,	P.E. / Vice President	_	Phone No:	(561) 997-807	0 Fax No.:	(561) 997-8129
DESCRIPTION OF S	ERVICES: Vide	o survey, video review and	report preparatio	on			

PLEASE LIST THE DOLLAR AMOUNT AND PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME ON THIS PROJECT. PLEASE ALSO LIST THE DOLLAR AMOUNT AND PERCENTAGE OF WORK TO BE COMPLETED BY ALL SUB-CONSULTANTS ON THIS PROJECT. IDENTIFY ALL APPLICALBE CATEGORIES OF CONSULTANT/SUBCONSULTANTS

	(Check one or both Categories)		Consultant / Sub-consultant Dollar Amount and Percentage of Services				
Name, Address and Phone Number	<u>M/WBE</u>	<u>SBE</u>		Hispanic	Women	Caucasian	Other (Please Specify)
	Minority Business	Small Business	Black				
1. C Solutions, Inc. (954) 599-6331 1201 Tangelo Isle, Fort Lauderdale, FL 33315			\$41,310				
2.							
3.							
4.							
5.							
(Please use additional sheets if necessary)							
		Total	\$41,310				

Total SBE-M/WBE Participation 25.52 %

NOTE: 1.

The percentages listed on this form must be supported by the sub-consultant included on Schedule 2 in order to be counted toward goal attainment.
 Firms may be certified by Palm Beach County as an SBE and/or M/WBE

OSBA SCHEDULE 2 LETTER OF INTENT TO PERFORM AS AN SBE-M/WBE CONSULTANT/SUBCONSULTANT

This document must be completed by <u>ALL</u> SBE-M/WBE's and submitted with this CSA. Specify in detail, the particular consulting services to be performed and the dollar amount and/or percentage for each services. SBE credit will only be given for services which the SBE-M/WBE's is certified to perform. Failure to properly complete Schedule 2 will result in your SBE participation not being counted.

PROJECT NUMBER:	WUD 15-024	PROJECT NAME:	GL09 Glades I / I Projects – Pl	nase 3
TO: Hazen and Sawy	er, P.C.	-		
	(Name	of Prime Consultant)		
The undersigned is certi	fied by Palm Beac	ch County as a - (check	c one or more, as applicable):	
Small Business Enterpri	se		Minority Business Enterprise	X
Black X Hispa	anic Wom	en Caucasia	n Other (Please Specify)	
Date of Palm Beach Cou	unty Certification:		MARCH 3, 2014	_

The undersigned is prepared to perform the following described consulting services in connection with the above project and will enter into a formal agreement for work with you, conditioned upon execution of a contract with Palm Beach County.

Additional Sheets May Be Used As Necessary

(Specify in detail the particular consulting services thereof to be performed)

C Solutions will assist with video inspection services and with review of video surveys and assistance with preparation of recommendations and final report

Total SBE-M/WBE Participation

25.52%

If undersigned intends to sub-subcontract any portion of this job to a certified SBE-M/WBE or a non-SBE subconsultant, please list the name of that sub-consultant and the amount below.

Price or Percentage \$41,310.00

C Solutions, Inc. (Name of Sub-consultant)

The Prime Consultant affirms that it will monitor the **SBE-M/WBE** listed to ensure the **SBE-M/WBE** perform the services with their own work force. The undersigned **SBE-M/WBE** Prime or **SBE-M/WBE** sub-consultant affirms that it has the resources necessary to perform the work listed without subcontracting to a non-certified SBE or any other certified SBE sub-consultants except as noted above.

The undersigned sub-consultant understands that the provision of this form to the Prime Consultant does not prevent sub-consultant from providing quotations to other.

	Mark Drummond, P.E. / President	
	Print name of	
	SBE-M/WBE Sub-consultant	
Ву:	Mart Free	
	(Signature)	
Date:	August 19, 2015	

OSBA Schedule 3(A) PROFESSIONAL SERVICES ACTIVITY REPORT

		Project No.:	WUD 15-024
		Task Authorization No.:	9
		REPORTING PERIOD:	
Prime C	Consultant Address:		
City / S			Zip
-	Person:	Phor	ne #
Contrac	t Name:		
Contrac		Contract Amount:	
Total Pe	ercentage performed by Prime's Firm:	SBE-M/WBE Fi	rm:
Service		Engineering	Surveying
Other (S	Specify)		
Have St	ub-Consultants completed work with its	s own workforce for this applicat	tion?
Yes	No		
Note: II	yes, complete below: SUB-	CONSULTANTS	
1. Fi	rm's Name:		
Ac	1dress / Tel:		
Es	timated Start Date:	Contract Amount:	
	COPE OF WORK:		
Pe	ercentage / Hrs Completed:	Amount Paid to Date:	
2. Fi	rm's Name:		······
A	ddress / Tel:		
Es	timated Start Date:	Contract Amount:	
SC	COPE OF WORK:		
Pe	ercentage / Hrs Completed:	Amount Paid to Date:	\$
3. Fi	rm's Name:		
A	Idress / Tel:		
Es	timated Start Date:	Contract Amount:	
SC	COPE OF WORK:		
Pe	ercentage / Hrs Completed:	Amount Paid to Date:	\$

I certify that the above is true to the best of my knowledge

Signature / Title

OSBA SCHEDULE 4 – SBE-M/WBE PAYMENT CERTIFICATION

The Prime Contractor is to submit Schedule 4 with its Monthly Payment Request to Palm Beach County to reflect actual payments made to the SBE-M/WBE Sub-contractor. The Prime Contractor is not to request signature from an SBE-M/WBE Sub-contractor unless it has made a payment to the SBE-M/WBE Sub-contractor. The SBE-M/WBE Sub-contractor is not to complete and sign this form unless it has received a payment from the Prime Contractor for services actually performed by the SBE-M/WBE Sub-contractor. A separate Schedule 4 is required for each SBE-M/WBE Sub-contractor payment.

This is to cert	ify that				received			
			(SBE or N	M/WBE Sub-contractor Name)				
(Monthly) or (F	-inal) paymer	nt of <u>\$0.00</u>						
On	-	- 2015	from					
MM	DD	YYYY		(Prime Cor	ntractor Name)			
For labor and/	or material us	sed on			1			
r or labor and,	or matorial at		. <u></u>	(Project Name)	(Work Order)			
DEPT.:	WUD			PROJECT NO.:				
PRIME CONT	RACTOR VE	NDOR CODI	E:					
SBE OR M/W	BE SUB-COM	NTRACTOR N	/ENDOR	CODE:				
If the SBE Sul for labor prov	o-contractor i ided on this p	ntends to dist project, please	ourse any e provide	funds associated with this pay the following information:	yment to any Sub-contractor			
*Sub-contract	or Name:			Amount to be paid:				
verify paymen By:	t.			an SBE or M/WBE a separate				
(5)	gnature of Su	b-contractor)		Subcontractor)	-			
STATE OF FL COUNTY OF	ORIDA							
Sworn to and By:		efore me this		day of	2015			
				Notary Public,	State of Florida			
				Print, Type or Stamp Con	missioned Name of Notary			
Personally Kr	nown	OR Produ	ced Ident	ification Type of Ic	lentification			

ATTACHMENT – E

AUTHORIZATION STATUS REPORT

SUMMARY AND STATUS OF REQUESTS FOR AUTHORIZATIONS

Auth.			Project	SBE Total	SBE	Approved	Date	WUD No.	Consultant's
No.	Description	Status	Total Amount	Amount	Participation %	Ву	Approved	Assigned	Project No.
1	SRWRF Pretreatment Screenings	Approved	\$98,418.00	\$27,500.00	27.94%	PBCWUD	07/23/14	14-036	45008-001
2	Western Region WWTF Clarifier PDR	Approved	\$97,782.00	\$48,394.60	49.49%	PBCWUD	07/23/14	14-060	45008-002
3	Challenge Grant Application	Approved	\$19,600.00	\$0.00	0.00%	PBCWUD	09/05/14	14-101	45008-003
4	Digester Biogas	Approved	\$19,810.00	\$0.00	0.00%	PBCWUD	12/18/14	14-030	45008-004
5	Western Region Flow Monitoring	Approved	\$60,404.00	\$39,266.00	65.00%	PBCWUD	05/13/15	15-024	45008-005
6	Glades Master Plan Cont'd. Assist.	Approved	\$19,045.00	\$0.00	0.00%	PBCWUD	05/21/15	14-101	45008-006
7	GL09 Glades Infiltration / Inflow Projects – Phase 1	Pending	\$180,800.00	\$68,100.00	37.66%			15-024	45008-007
8	GL09 Glades Infiltration / Inflow Projects – Phase 2	Pending	\$197,300.00	\$18,480.00	9.36%			15-024	45008-008
9	GL09 Glades Infiltration / Inflow Projects – Phase 3	Pending	\$161,820.00	\$41,310.00	25.52%			15-024	45008-009
				· · ·					
	Total	\$854,979.00	\$243,050.60	28.42%	~				

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ATTACHMENT – F

AUTHORIZATION STATUS REPORT

SUMMARY OF STATUS OF SMALL BUSINESS TRACKING SYSTEM

	Total	SBE
Current Proposal		
Value of this Authorization	\$161,820.00	\$41,310.00
Value of SBE Letters of Intent	\$41,310.00	\$41,310.00
Actual Percentage	25.52%	100.00%
Signed Authorizations		
Total Value of Authorizations	\$315,059.00	\$201,740.60
Total Value of SBE Signed Subcontracts	\$115,160.60	\$201,740.60
Actual Percentages	36.55%	100.00%
Signed Authorizations Plus Current Proposals		
Total Value of Authorizations	\$476,879.00	\$243,050.60
Total Value of SBE Signed Subcontracts & Letters of Intent	\$156,470.60	\$243,050.60
Actual Percentages	32.81%	100.00%
Goal	22.00%	22.00%

ATTACHMENT G – Location Map

