

PALM BEACH COUNTY  
BOARD OF COUNTY COMMISSIONERS

AGENDA ITEM SUMMARY

Meeting Date: May 4, 2021 Consent [X] Regular [ ]  
Public Hearing [ ]

Department: Water Utilities Department

I. EXECUTIVE BRIEF

**Motion and Title:** Staff recommends motion to approve: Consultant Services Authorization (CSA) No. 2 to the Consulting/Professional Services Utility Distribution & Collection System Engineering Services Contract (Contract) with Keshavarz & Associates, Inc. (Consultant) for the Belle Glade Water Main Improvements; SE Zone 6 Water System Replacement (Project) for a not to exceed amount of \$614,111.43.

**Summary:** On December 15, 2020, the Board of County Commissioners approved the Palm Beach County Water Utilities Department (PBCWUD) Contract (R2020-1898) with Consultant. CSA No. 2 provides for professional engineering services relating to survey, design and permitting of the Project. These services include, survey, subsurface utility exploration, geotechnical exploration, construction plans, permitting, outreach support and bid support services for the replacement and relocation of approximately 17,500 linear feet of water mains within the south east area of the City of Belle Glade designated as Zone 6. Project also includes the relocation of approximately 189 water services from the rear of the property to the front of the property.

This Contract was procured under the requirements of the Equal Business Opportunity Ordinance. On October 2, 2019, the Goal Setting Committee applied an Affirmative Procurement Initiative (API) of a minimum mandatory 20% Small Business Enterprise (SBE) subcontracting goal and an evaluation preference for up to 15 points based upon the relative level of dollar participation by certified SBE firms were the API applied to the Contract. The Contract provides for 85.00% SBE participation, which includes 85.00% M/WBE participation, 82.00% MBE (A), and 3.00% MBE (B). CSA No. 2 includes 87.50% SBE participation, which includes 87.50% M/WBE participation, 87.50% MBE (A), and 0.00% MBE (B). The cumulative SBE participation including CSA No. 2 is 87.50% SBE, which includes 87.50% M/WBE participation, 87.50% MBE (A) and 0.00% MBE (B). Consultant is a Palm Beach County based company. The Project is included in the PBCWUD FY21 Budget. (PBCWUD Project No. 21-047) District 6 (MJ)

**Background and Justification:** Zone 6 of the Belle Glade water distribution system experiences issues with leaks, unknown location of facilities, substandard pipe materials, undersized water mains and valve isolation. The Project will replace aging water distribution infrastructure within the project area including pipes, valves, fire hydrants, and water meters. The Project also includes the relocation of water services from the rear to the front of the properties. The Project will include the areas surrounding South Main Street, East Canal Street, Dr. Martin Luther King Jr. Boulevard and SE Avenue G. The existing water mains to be replaced under the Project are undersized and lack adequate fire protection. The Project is needed to increase fire protection, restore the service life, efficiency and effectiveness of the water distribution system. This Project will also help to reduce the operations and maintenance workload and associated cost.

**Attachments:**

- 1. Four (4) Originals of Consultant Services Authorization No. 2
- 2. Location Map
- 3. Certificate of Liability Insurance

Recommended By: Jim Steles Department Director Date: 4-7-2021

Approved By: [Signature] Assistant County Administrator Date: 4/15/2021

**II. FISCAL IMPACT ANALYSIS**

**A. Five Year Summary of Fiscal Impact:**

Fiscal Years	2021	2022	2023	2024	2025
Capital Expenditures	<u>\$614,112</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Operating Costs	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
External Revenues	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Program Income (County)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
In-Kind Match County	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<b>NET FISCAL IMPACT</b>	<b><u>\$614,112</u></b>	<b><u>0</u></b>	<b><u>0</u></b>	<b><u>0</u></b>	<b><u>0</u></b>
<b># ADDITIONAL FTE POSITIONS (Cumulative)</b>	<b><u>0</u></b>	<b><u>0</u></b>	<b><u>0</u></b>	<b><u>0</u></b>	<b><u>0</u></b>
<b>Budget Account No.:</b>	<b>Fund <u>4011</u></b>	<b>Dept <u>721</u></b>	<b>Unit <u>W038</u></b>	<b>Object</b>	<b><u>6543</u></b>

Is Item Included in Current Budget? Yes  No

Does this item include the use of federal funds? Yes  No

Reporting Category N/A

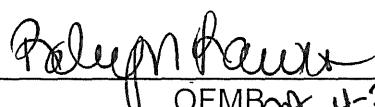

**B. Recommended Sources of Funds/Summary of Fiscal Impact:**

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

C. Department Fiscal Review: \_\_\_\_\_ **GF**

**III. REVIEW COMMENTS**

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

 4/8/21 OFMB 4-7-21 Approved Jackson 4/7/21	 4/12/21 Contract Development and Control 4-12-21 (TJ)
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**B. Legal Sufficiency:**

  
 4/13/21  
 Assistant County Attorney

**C. Other Department Review:**

\_\_\_\_\_  
 Department Director

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

Palm Beach County Water Utilities Department  
Contract for Consulting/Professional Services  
Utility Distribution & Collection System Engineering Services  
Resolution No. R2020-1898 Contract Dated December 15, 2020

**Project Title:** Belle Glade Water Main Improvements; SE Zone 6 Water System Replacement

**PBCWUD Project No.:** 21-047

**Consultant:** Keshavarz & Associates, Inc.

**Address:** 711 North Dixie Highway, Suite 201, West Palm Beach, FL 33401

**Budget Line Item No. :** 4011-721-W038-6543

**District No.:** 6

This Consultant Services Authorization provides for: Engineering Services, including but not limited to: Subsurface Utility Exploration (SUE), geotechnical exploration, survey, preparation of construction plans and details, permitting, community outreach support and bid assistance services towards the addition of new water mains, replacement of existing water mains and water services, as well as the conversion of existing rear-lot water services to front-lot services within the limits of the geographical area referred to as "South East Zone 6" in the City of Belle Glade, Florida.

(See ATTACHMENT A for detailed scope of services)

The Contract provides for 85.00 % SBE participation which includes 85.00 % M/WBE participation, 3.00 % MBE (B) and 82.00 % MBE (A). This Consultant Services Authorization includes 87.50 % overall participation which includes 87.50 % M/WBE participation, which includes 0.00 % MBE (B) and 87.50 % MBE (A). The cumulative SBE participation, including this authorization is 87.50 % which includes 87.50 % M/WBE participation, which includes 0.00% MBE (B) and 87.50% MBE (A).

1. Services completed by the Consultant to date :  
**See ATTACHMENT B.**
2. Consultant shall begin work upon receipt of Notice to Proceed correspondence.
3. 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 \$ 614,111.43
  - B. Fixed price of \$ \_\_\_\_\_
  - C. Total \$ 614,111.43
4. 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.

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**PBCWUD Project No.:** 21-047

5. SBE participation is included in **ATTACHMENT C** under this Authorization. The attached Schedule 1 defines the SBE applied to this Authorization and Schedule 2 establishes the SBE contribution from each Sub-Consultant (Letter of Intent).
6. This Authorization does not amend, change, or modify the Contract dated December 15, 2020 which remains in full force and effect.
7. All Attachments to this Authorization are incorporated herein and made a part of this Consultant Services Authorization.

Palm Beach County Water Utilities Department  
Contract for Consulting/Professional Services  
Utility Distribution & Collection System Engineering Services  
Resolution No. R2020-1898 Contract Dated December 15, 2020

Project Title: Belle Glade Water Main Improvements; SE Zone 6 Water System Replacement

PBCWUD Project No.: 21-047

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

Joseph Abruzzo, Clerk of the Circuit Court  
& Comptroller, Palm Beach County

Palm Beach County, Board  
of County Commissioners

ATTEST:

Signed: \_\_\_\_\_

*AM*

Signed: \_\_\_\_\_

Dave Kerner, Mayor *JKS*

Typed Name: Deputy Clerk

\_\_\_\_\_  
(Date)

Approved as to Form and Legal  
Sufficiency

CONSULTANT: Keshavarz & Associates, Inc.

Signed: \_\_\_\_\_

*[Signature]*  
\_\_\_\_\_  
(Signature)

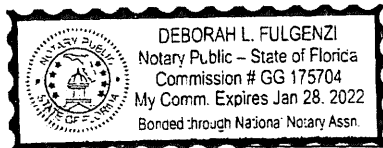
Typed Name: Michael W. Jones  
County Attorney

Amir Keshavarz, P.E., Senior Project Manager  
(Name and Title)

3/10/2021  
(Date)

STATE OF FLORIDA  
COUNTY OF PALM BEACH

The foregoing instrument was acknowledged before me by means of  physical presence or  online notarization, this 10<sup>th</sup> day of MARCH, 2021, by Amir Keshavarz, P.E. who is  personally known to me or  has produced \_\_\_\_\_ as identification.



*[Signature]*  
\_\_\_\_\_  
(Signature of Notary Public - State of Florida)  
Deborah L. Fulgenzi

(Print, Type, or Stamp Commissioned Name of Notary Public)



**KESHAVARZ**  
— & ASSOCIATES —  
CIVIL ENGINEERING | SURVEYING | CONSULTING

October 22<sup>nd</sup>, 2020

Palm Beach County Water Utilities Department  
8100 Forest Hill Boulevard  
West Palm Beach, FL 33413

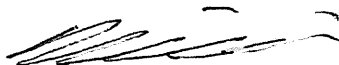
Reference: Utility Distribution & Collection System Engineering Services  
WUD 19-082

To whom it may concern,

We are hereby designating Amir Keshavarz, P.E. as an authorized signer associated with the contract for Utility Distribution & Collection System Engineering Services and any associated Consultant Service Authorizations and invoices that may fall under this agreement.

Thank you.

Respectfully,

  
Mark A. Williams, P.E.  
Senior Vice President

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711 N Dixie Hwy Suite #201, West Palm Beach, FL 33401 Tel: (561) 689-8600  
Keshavarz.com

Palm Beach County Water Utilities Department  
Contract for Consulting/Professional Services  
Utility Distribution & Collection System Engineering Services  
Resolution No. R2020-1898 Contract Dated December 15, 2020

**LIST OF ATTACHMENTS**

<b>ATTACHMENT A</b>	Scope of Services
<b>ATTACHMENT B</b>	Summary and Status of Consultant Services Authorizations
<b>ATTACHMENT C</b>	OEBO Schedules 1 and 2
<b>ATTACHMENT D</b>	Project Schedule
<b>ATTACHMENT E</b>	Budget Summary
<b>ATTACHMENT F</b>	Summary of SBE-M/WBE Business Tracking
<b>ATTACHMENT G</b>	Location Map

Revised 02/11/2021

# ATTACHMENT A

## SCOPE OF SERVICES

WUD Project No.: 21-047

Project Title: Belle Glade Water Main Improvements; SE Zone 6 Water System Replacement

CONSULTANT shall perform:

### **BACKGROUND:**

Over the past decade, Palm Beach County Water Utilities Department (PBCWUD) has engaged in various system-wide potable water infrastructure improvement projects, segmented into geographical areas or “Zones” in the City of Belle Glade (City) and surrounding areas, to replace portions of the aged system and address persistent Operations and Maintenance (O&M) challenges.

Due to the unusual existing conditions and limited availability of reliable system records within the City, exploratory studies have been conducted in the past towards increased efficiency during zone-wide infrastructure replacement projects. In 2015 one such study was performed for “South East Zones 4 & 6”. A portion of this 2015 study area has been identified for the subject improvements and is referred to by PBCWUD as South East (SE) Zone 6. The 2015 study recommended improvements throughout SE Zone 6, which have been recently reviewed with PBCWUD Engineering and O&M to add, reduce, and/or otherwise update the recommended infrastructure improvements based on the latest available information since 2015, as well as various other PBCWUD, Florida Department of Transportation (FDOT), the City’s and other PBCWUD consultants’ completed and in-progress improvement projects in the area. This infrastructure improvement/replacement project is focused on enhancing overall system reliability, replacing aged water mains and services, converting rear-lot water services and meters, addressing persistent O&M challenges, as well as improving system interconnectivity and fire protection throughout SE Zone 6.

### **SCOPE OF SERVICES:**

Under this Consultant Services Authorization (CSA), Keshavarz & Associates, Inc. (CONSULTANT) shall perform the Engineering related services as described herein to include the surveying, subsurface utility exploration, geotechnical exploration, public engagement assistance, easement assistance services, project management, design, permitting, and bid assistance necessary to prepare detailed drawings for construction of necessary infrastructure improvements within SE Zone 6, in accordance with PBCWUD’s Minimum Engineering and Construction Standards, as well as all applicable permitting agency regulations.

The subject geographic area in Belle Glade, FL referred to as SE Zone 6 is approximately 130 acres in size and is described as: west of East Canal Street S (the Hillsborough Canal); east of North Main Street (SR 80); north of SE Avenue G; and south of Dr. Martin Luther King Jr. Boulevard (SE Avenue E). The SE Zone 6 water main improvement project area includes improvements throughout the above described geographic area.

The services provided under this CSA are related to approximately 17,900 LF of Water and Wastewater infrastructure improvements as summarized by the following:

- An approximate combined total of 17,500 LF of new water main installation and removal/replacement of existing water main comprising of:
  - 12,600 LF of removal/replacement of existing water mains
  - 4,900 LF of new water mains



- Replacement and/or conversion of existing water services currently serving a total of 189 PBCWUD customers including:
  - Replacement of 120 PBCWUD customer's existing water services
  - Conversion of 69 PBCWUD customer's existing rear-lot water services and meters to front-lot meters.
- Removal/replacement of 350 LF of existing 4" sanitary force main found by PBCWUD O&M on SE Avenue F, between SE 5<sup>th</sup> St. and SE 6<sup>th</sup> St.
- Addition of 50 LF of 6" sanitary force main as a bypass of Lift Station LS8110.
- Addition of a single water service to Lift Station LS8110.
- Addition of an 8" water main stub out south of SE Ave F at SE 8<sup>th</sup> St. and a 12" water main stub out south of SE Ave G at Tabit Rd.
- Replacement of affected existing fire hydrants and addition of twelve (12) new fire hydrants
- Replacement of affected existing valves and addition of new valves as required by PBCWUD
- Coordination with PBCWUD towards the Strategic Placement of five (5) new potable water system pressure and flow monitoring devices to be installed per details as provided by PBCWUD.

The following services will be provided by the CONSULTANT:

**Task 1. Preliminary Design Services**

**1.1. Project Management, Research, Project Orientation and Kick-off:**

The CONSULTANT shall actively manage their personnel together with their sub-consultants towards the proper and successful execution of PBCWUD's objectives in the context of the project scope. CONSULTANT "Project Management" responsibilities range from internal to external methods and approaches affecting the general advancement of the project.

The CONSULTANT shall research, review and study record information, GIS database information, and other pertinent information of the existing facilities within the road R/W.

The CONSULTANT shall conduct a project kick off meeting with PBCWUD; CONSULTANT shall chair this meeting, generate agendas and provide meeting summaries for same.

This task includes general correspondence, coordination and data exchange with PBCWUD as needed throughout this project.

This task also includes efforts required to compile reports, tables, receipts, and back up records in general compliance with applicable accounting and SBE-M/WBE requirements.

**1.2. Preliminary Meetings and Coordination with Regulatory Agencies:**

CONSULTANT shall coordinate with and if necessary set up and attend meetings with the City, FDOT, South Florida Conservancy District (SFCD), Palm Beach County Land Development Department, Palm Beach County Fire Rescue, and Palm Beach County Health Department to preliminarily discuss and determine the necessary permitting conditions, constraints and considerations related to this project.

The CONSULTANT shall also specifically coordinate with the above-mentioned entities related to any anticipated improvement projects that may coincide or conflict with this project's improvements. The CONSULTANT shall discuss and explore any cost sharing possibilities between PBCWUD and other entities' anticipated or desired improvement projects by means of inter-department collaboration as a result of this project.

In addition, during the Preliminary Design Stage of the project, the CONSULTANT shall coordinate directly with the Palm Beach County Health Department to confirm the assumption that the proposed sanitary replacements will not require a FDEP Wastewater permit.

The CONSULTANT is not responsible for changes to the regulatory process and construction standards of the governing agencies during the design and permitting phases of this project. These changes may cause delays in the anticipated permit application review and approval phases of the project.

This task is not inclusive of the CONSULTANT's general assistance to PBCWUD towards continual coordination with the City's in-house consultant regarding the status, limits and anticipated scheduling of the City's FDOT-funded resurfacing projects and/or other upcoming improvement projects that may coincide or conflict with this project (See Supplemental Services No. 1).

### **1.3. Field Visits and Coordination with O&M Staff:**

The CONSULTANT shall perform up to three (3) field visits related to this project's design efforts. The CONSULTANT shall perform one (1) field visit to review the project's existing conditions and to identify possible conflicts or constraints visible and/or identifiable through a field visit. The CONSULTANT shall photograph and document these existing conditions for their reference during design and coordination. These photographs shall be provided to PBCWUD as a part of the Final Deliverable.

The CONSULTANT shall also contact PBCWUD O&M staff of the Western Region Department to solicit any insight on any consistent challenges facing O&M staff related to the project area's existing infrastructure. The CONSULTANT shall perform up to two (2) field visits with PBCWUD O&M staff, if necessary, related to this solicitation for input or to review any additional concerns that arise during this project's duration. This task also includes any other necessary direct coordination efforts with O&M or other PBCWUD staff soliciting input from the field, field crews, Inflow & Infiltration (I&I) teams, etc.

### **1.4. Utility Coordination:**

The CONSULTANT shall identify all pertinent dry utility providers (electric, gas, phone, CATV, traffic signal systems, etc.) within the project area by means of contacting "811 No-cuts". The CONSULTANT shall then prepare exhibits and distribute requests for existing facility locations / data and proposed improvements to these dry utility providers. The CONSULTANT shall coordinate and track the responses from the utility providers, incorporating the results onto the construction plans in an attempt to minimize unidentified potential conflicts with the proposed potable water and sanitary system replacement piping during construction. This effort is intended to be preliminary in nature and will require additional verification via various methods as is typical of utility retrofit design practices.

### **Task 2. Infrastructure Replacement Surveying and Design Services:**

The CONSULTANT shall perform the required field surveying services to prepare and furnish Route and Topographic Surveys that depict the appropriate land features, horizontal and vertical control points in plan view necessary to prepare the subject design. The horizontal survey data will be in state plane coordinate system of North American Datum of 1983, 2007 adjustment (SPCS NAD/83-2007). The vertical datum shall be in the North American Vertical Datum of 1988 (NAVD88) to include a conversion factor to convert the vertical datum to the National Geodetic Vertical Datum of 1929 (NGVD29), unless PBCWUD stipulates otherwise, and shall be used as the basis of design.

Assumptions:

- The CONSULTANT will prepare and furnish construction plans and details on 24"x36" drawings at a 1:20 scale.
- The CONSULTANT shall submit 60%, 90% and 100% complete design drawings to PBCWUD.
- All Record Drawings for the existing water and wastewater facilities within the design corridor will be provided by PBCWUD, if available. The accuracy and completion of which shall be relied upon by the CONSULTANT.

- Any required hydraulic modeling for pipe sizing adjustments, fire flow analysis, or for permitting purposes is not included in this CSA. Should Hydraulic modeling be required, the CONSULTANT will be responsible for notifying PBCWUD in a timely manner and providing any necessary data to PBCWUD to perform the hydraulic modeling in-house, and to provide the CONSULTANT with the results.
- In order to maintain the schedule of deliverables requested by PBCWUD, the consolidated review comments generated by all entities within PBCWUD shall be submitted to CONSULTANT for the 60% and 90% design submittals within two (2) weeks of receipt of submittal from the CONSULTANT.
- The proposed infrastructure replacement design will be depicted in plan view only, unless where required for permitting. It is assumed that Plan and Profile Views will only be prepared where improvements are within a Palm Beach County R/W. Alignments of Profile Views will generally be along the centerlines of the proposed water mains, unless specifically required otherwise by the R/W owner.
- PBCWUD wishes to replace the existing fire hydrants within the water main replacement project limits if necessary. PBCWUD also wishes to install additional fire hydrants to address fire protection coverage gaps and to ensure fire hydrant spacing and fire protection coverage complies with current Palm Beach County Fire Rescue requirements.
- PBCWUD does not wish to replace or relocate any existing front-lot single water meter boxes, including the replacement of an existing pair of single water meter boxes with a proposed double meter box.
- If existing front-lot water meter boxes are to remain, but appear to be located where it is reasonable to assume the boxes will be subject to traffic loading from passing or parked vehicles, the CONSULTANT shall propose the boxes be replaced with Tier 15 traffic-rated water meter boxes/lids. Likewise, if a proposed relocated or converted rear-to-front lot meter box is to be placed where subject to traffic loading, the CONSULTANT shall propose boxes be Tier 15 traffic-rated water meter boxes/lids.
- It is assumed that the locations of the replaced meter boxes will not change. It is also assumed that no significant work related to the private water service will be necessary for the meter box replacement, thus a licensed plumber will not be required.
- It is assumed that the existing sanitary force main will be removed and replaced in-place, where beneath or crossing roadway pavement. It is assumed a PBC Health Department Wastewater permit will not be required for this replacement work. CONSULTANT's design will focus on maintaining sanitary service throughout the replacement construction.
- It is assumed that PBCWUD will provide all available sanitary system televising videos and as-built data related to any upcoming PBCWUD sanitary sewer projects within the project area that may be necessary or beneficial for this project's scope.
- It is assumed that the locations of five (5) proposed potable water system pressure/flow monitoring devices entering SE Zone 6 will be coordinated with PBCWUD staff based on a collectively agreeable set of design outcome goals and success factors regarding the placement within the greater potable water system.
- Prior to the 60% design stage beginning, it is assumed that all relevant/applicable specifications, design considerations and criteria related to the potable water system pressure/flow monitoring devices are provided by PBCWUD, including but not limited to: technical/manufacturers specifications for each device being considered for installation, meter and radio transmitter specifications, below-ground assembly/structure requirements, above-ground clearance requirements, service and maintenance access criteria.
- It is assumed that the potable water system pressure/flow monitoring devices are to be located inside a vault, similar to standard detail 28W and 29W, or above ground similar to standard detail

10W. CONSULTANT shall create a project specific detail based on PBCWUD direction and input prior to the 60% design stage.

- It is assumed that potable water system pressure/flow monitoring devices are to be battery operated, thus no electrical design is required.
- It is assumed that the potable water system pressure/flow monitoring devices that are included in the CONSULTANT's construction plans are to be installed per the details created by the CONSULTANT in collaboration with PBCWUD and specifications as provided by PBCWUD.
- Construction of the proposed improvements is to be phased in order to minimize access interruptions and reduce large areas that are left un-restored for prolonged periods during construction. The construction plans will be prepared with phasing in mind, which will ultimately be reflected on phasing plan sheets and phasing notes within the construction plans.
- Assistance to Foresight Communications, PBCWUD's public outreach consultant, is included in this CSA on an as needed basis where it relates to notifying/educating the property owners affected by the subject improvements and easement acquisition assistance (See Supplemental Services No. 1)

## **2.1 Coordination with Subsurface Utility Engineering (SUE) and Geotechnical Engineering Sub-Consultants for Field Investigations:**

The CONSULTANT shall coordinate with the SUE Sub-Consultant, InfraMap Corp (InfraMap) and the Geotechnical Sub-Consultant, Tierra South Florida, Inc. (Tierra) on a continual basis to schedule their respective services as needed in a timely manner.

The CONSULTANT shall prepare and provide Utility targeting (scanning) and test hole (soft dig) exhibits to InfraMap to request the required work. InfraMap shall scan the limits of the proposed utility replacement corridors and designated road R/W using Ground Penetrating Radar (GPR) and other methods as indicated in their proposal.

During the design phase it may be determined that additional information is needed for specific utilities to confirm condition, material and location, acquire vertical elevations, confirm tie-in locations, navigate critical crossings, etc. The CONSULTANT shall prepare exhibits to provide to InfraMap depicting the location of the areas needing additional information for design purposes, whether via scanning or soft digs.

Further, the CONSULTANT shall coordinate with Tierra to perform Standard Penetration Test (SPT) soil borings and pavement cores at locations determined by Tierra based on their assessment of the proposed utility replacement corridor's existing conditions and geotechnical characteristics.

The CONSULTANT shall provide both InfraMap and Tierra with all available system information assembled in coordination with PBCWUD and Utility providers at the time of the requested SUE and Geotechnical activities. InfraMap and Tierra shall be individually responsible for performing all necessary activities prior to performing their respective work, such as but not limited to calling "811 No-cuts".

While not included in this task, the CONSULTANT shall also coordinate with the City and/or their in-house consultant to provide notification of anticipated scanning, soft dig and geotechnical exploration operations once scheduled, as well as the anticipated work locations, prior to those efforts being completed. Should notification of work within PBC R/W be required, the CONSULTANT shall provide the same notification of anticipated field work timing and approximate locations via writing or a phone call (See Supplemental Services No. 3).

Permitting for sub-consultant's work within the various R/W will be provided by the CONSULTANT or the sub-consultants, depending on the R/W Owner (See Supplemental Services No. 3 & sub-consultant proposals included in Attachment E).

**2.2 Field Acquisition of SUE Efforts and Depiction of Results on Construction Plans:**

The CONSULTANT's survey field crews shall locate the results of the Scanning efforts on the part of InfraMap Corp within the limits of the road R/W. These located results shall be incorporated into the Construction Plans. The CONSULTANT shall locate each soft dig and shall depict the location and vertical elevation data of the utility into the construction plans. A spreadsheet-based soft dig inventory containing the results of all soft digs associated with the project will be compiled and included with the construction plans. All SUE results will be provided to PBCWUD in the Final Deliverable.

**2.3 Route Survey:**

The CONSULTANT shall depict the entire R/W limits of roughly 18,500 LF of road R/W and/or private property/SFCD R/W.

As a part of this Task, all of the applicable routes shall have the R/W line and property/lot line limits depicted based on information from a combination of recorded plats and/or deeds publically available on the Clerk of Court's Official Records web page. Under this Task, a public record request, direct request from a Palm Beach County Courthouse or Title Search is not included. All known easements of record contiguous with the platted street R/W lines as shown on the recorded plats will be depicted (if any).

A baseline shall be created along the centerline of the road R/W for plan sheet stationing.

All Title Search coordination, review and drafting the results of eight (8) Title Search by the CONSULTANT is included in this CSA (See Supplemental Services No. 2).

All coordination and drafting/authoring required for eight (8) proposed utility easement sketch and legal description by the CONSULTANT is included in this CSA (See Supplemental Services No.2)

The CONSULTANT shall establish at least two (2) benchmarks within each roadway corridor for construction purposes within the project area and the locations shall be indicated on the horizontal control sheets of the construction plans.

**2.4 Topographic Survey:**

A topographic survey shall be prepared based on the above described route survey limits and shall include identification and location of pavement edges, driveways and turnouts, sidewalks, trees, signs, power poles, guy wire anchors, light poles, above ground utility boxes, etc., within the R/W corridors. All existing water valves, fire hydrants, water meters, back flow preventers, double detector check valves, sanitary manholes, sanitary clean outs, storm manholes, catch basins shall be located within the relevant project areas and, if deemed necessary by the CONSULTANT, adjacent to the affected project areas, if required for the utility replacement design purposes. If accessible, identifiable, and required for design purposes, pipe sizes, material and inverts of stormwater and sanitary sewer facilities located within or adjacent to the affected project area shall be acquired by means of accessing existing stormwater and sanitary structures.

Existing vertical grades shall be acquired within the proposed utility replacement corridors at a maximum of 100 foot intervals perpendicular to the centerline of the R/W extending to approximately 10 feet beyond the R/W lines as deemed necessary by the CONSULTANT. The acquired field data will be reflected on the construction plans as referenced.

Available information on existing potable water and sanitary sewer mains (where applicable) will be provided by PBCWUD in the form of project Record Drawings for field verification, as applicable and if possible, during topographic data acquisition efforts. Dry utility facilities locations (FPL, AT&T, Comcast, etc.) will be acquired where paint markings, as established by others, are encountered during topographic data acquisition efforts and will also be included on the construction plans.

**2.5 60% Design Stage:**

Construction plans at a completion level of approximately 60% shall be submitted to PBCWUD for

review. The 60% design plans shall depict the existing utility replacement/abandonment limits and the various proposed infrastructure replacement layout/corridor in plan view only. These design plans shall also include the proposed connections to the existing water mains and sanitary gravity mains or manholes that are to remain.

These plans shall include all existing Utilities as acquired during the survey acquisition phase, the results of the utility coordination and shall include any record information of the existing water and wastewater facilities as provided by PBCWUD. The results of the subsurface utility targeting/scanning will also be depicted on the plans. Conflicts, crossings and deflections will be identified on the plans to the best of the CONSULTANT's abilities based on available data to date. A preliminary pothole inventory sheet will also be included reflecting known soft dig data at the time of the submittal. The 60% submittal will also include proposed grading and restoration details, PBCWUD Standard details and CONSULTANT's general details and general notes.

## **2.6 90% Design Stage:**

Construction plans at a completion level of approximately 90% shall be submitted to PBCWUD. The 90% design plans shall include the 60% design as modified through PBCWUD's issued review comments and other data as deemed relevant by CONSULTANT. Where required for permitting of certain corridors, Profile Views will be provided in the 90% Design Plans with crossings calculated and detailed. Results of SUE soft digs will be depicted on the plans, known or discovered conflicts shall be addressed; deflections will be detailed and crossings calculated. The 90% submittal will include all necessary plans sheets, details and notes for permitting purposes.

## **2.7 100% / Final Design Stage:**

Final construction plans will be prepared and shall include any modification from PBCWUD and/or modification requested by other regulatory agencies and approved by PBCWUD.

## **2.8 Preparation of Engineer's Opinion of Probable Construction Cost:**

Upon completion of the 60% and 90% design submittal, the CONSULTANT shall prepare an engineer's Opinion of Probable Construction Costs (OPCC) roughly in the format of the ultimate Bid Tab and based upon various related Bid line item and construction cost unit price data. This OPCC estimate will be submitted to PBCWUD within One (1) week from the submittal of the 60% and 90% design. The OPCC will be updated to include any modifications during the final phases of the design and will be resubmitted with the 100% design.

If at any point, should PBCWUD choose not to advertise the project as a public Bid and award it to a PBCWUD Pipeline Continuing Contractor, PBCWUD is to inform the CONSULTANT of the designated PBCWUD Pipeline Continuing Construction Contract that will apply to construction of the subject improvements and provide all current related data. All OPCCs provided by the CONSULTANT up to that point will remain and all forthcoming OPCCs will be per the applicable PBCWUD Pipeline Continuing Construction Contract. Should PBCWUD wish to have any previously provided OPCCs restructured to apply to a PBCWUD Pipeline Continuing Construction Contract, the CONSULTANT will provide these restructured and recalculated OPCCs and invoice the efforts under Task 4 upon approval by PBCWUD.

## **Task 3. Permitting Services with Regulatory Agencies for Proposed Infrastructure Improvements**

At the completion of the 90% Design Stage, the CONSULTANT shall prepare applications for plan review / permit approvals from the following agencies:

- City of Belle Glade (R/W Permit)
- South Florida Conservancy District
- Palm Beach County Engineering Department (Utility Permit)
- Palm Beach County Fire Rescue
- Palm Beach County Health Department (water distribution & wastewater improvements)

In addition to preparing the permit applications for appropriate regulatory agencies,

CONSULTANT shall assist PBCWUD in consultations with the appropriate authorities as necessary and shall track and monitor the permitting process. Permitting status sheets will be distributed throughout the process at milestones or more frequently if requested by PBCWUD. The Permitting Status sheets will identify the schedule of events as to when applications, comments and responses are submitted and will also include the permit number, regulatory contact and expiration date.

CONSULTANT services during the permitting phase shall also include the following:

- Attend pre-application meetings with the staff of each regulatory agency as required beyond the preliminary meetings.
- Attend meetings with each of the regulatory agencies during review of the final permit applications as required.
- Respond to request(s) for additional information from each regulatory agency.
- Provide PBCWUD with one (1) set of approved permits and plans from each permitting agency in hard and electronic copies, as may be applicable.
- Request permit extensions from regulatory agencies as needed throughout the duration of the project leading up to commencement of construction.
- Associated permit application fees shall be determined by the Regulatory agencies in coordination with the CONSULTANT and will be paid by PBCWUD.

**Task 4. Bidding Support Services:**

Upon completion of the Permitting phase, review and approval of the Bid Set of Construction Plans as provided by the CONSULTANT, PBCWUD shall draft and provide the front end documents for the Bid Package, including but not limited to, the contract, general conditions, invitation to bid, instructions to bidders, bond requirements, etc. PBCWUD shall advertise, print, sell, and maintain the bidders list related to the Public Bid of the subject potable water system replacement project. This project is assumed to be one (1) publically bid construction package.

Unless otherwise noted, the following Tasks will be performed by PBCWUD and the CONSULTANT, together in a collaborative manner, during the bidding or negotiating phases for the project's construction package.

**4.1 Review Front End Documents, Prepare Project Description, Summary of Work, Bid Tabulation, Summary of Pay Items:**

Upon notice of securing permit approvals, providing PBCWUD with the Bid Set of Construction Plans, and notice from PBCWUD that the provided Bid set was satisfactory, PBCWUD and the CONSULTANT shall collectively determine any applicable construction sequencing and restrictions/considerations during construction, including confirmation of the proposed construction phasing shown on the Bid set of construction plans. The CONSULTANT shall review the project's draft Front End Documents and advertisement for Bid as provided by PBCWUD. The CONSULTANT shall not review the Front End Documents for legal sufficiency. The CONSULTANT will provide any feedback and recommended revisions related to the Front End Documents within one (1) week of receipt, to be considered and ultimately decided upon by PBCWUD with the input of any appropriate Palm Beach County Department as required.

The CONSULTANT shall generate a Bid Tabulation (Bid Tab) to be included in the Bid Package. The Bid Tab will be based upon an updated Final OPCC as revised to reflect any modifications resulting from the permitting process and final stages of design. Further, the CONSULTANT shall draft the Summary of Pay Items / Measurement & Payment section to match the provided Bid Tab. Finally, the CONSULTANT shall draft the Project Description and Summary of Work specifically for this project's scope.

All drafted sections shall be submitted by the CONSULTANT to PBCWUD in Microsoft Word format for review and approval prior to advertising the Bid. It is assumed that 'Tracked Changes' will be utilized between the CONSULTANT and PBCWUD to facilitate efficient review and revisions.

#### **4.2 Preparation of Technical Specifications:**

The CONSULTANT shall review, discuss and modify, as needed, the standard PBCWUD Technical Specifications to be appropriately applied to this project's scope. Supplemental Technical Specifications will be developed if necessary. It is assumed that this will be a collaborative authorship effort, as the Technical Specifications must make many references to PBCWUD standard operating criteria and metrics that are not known by the CONSULTANT, nor the CONSULTANT's charge to dictate.

All drafted Technical Specifications will be submitted by the CONSULTANT to PBCWUD in Microsoft Word format for review and approval prior to advertising the Bid. It is assumed that 'Tracked Changes' will be utilized between the CONSULTANT and PBCWUD to facilitate efficient review and revisions.

#### **4.3 Pre-Bid Meeting Attendance:**

The CONSULTANT shall coordinate directly with PBCWUD staff regarding the scheduling of the project's Pre-Bid meeting, and shall make arrangements for the Designing Engineer or Construction Project Representative involved during design to be in attendance. PBCWUD is assumed to conduct the Pre-Bid meeting and is assumed to issue the Pre-Bid meeting minutes, if necessary, in the form of a Bid Addendum. The CONSULTANT shall take notes during the Pre-Bid meeting and will provide any relevant information, answers to any questions posed by the prospective bidders at the meeting and/or assist PBCWUD in drafting the Pre-Bid meeting addendum if requested by PBCWUD.

#### **4.4 Respond to Contractor Requests for Information and Addendum Issuance Assistance to PBCWUD:**

The CONSULTANT shall coordinate with PBCWUD as questions from prospective Bidders are received directly by the CONSULTANT and/or PBCWUD. All received Requests for Information and general questions from prospective Bidders will be compiled by PBCWUD and the CONSULTANT towards drafting concise addendum(s) as necessary. The CONSULTANT shall provide additional information or supplemental information as necessary at PBCWUD's request if deemed necessary to effectively respond to the bidders' requests and questions. It is assumed that all drafted addendum(s) will be provided to PBCWUD by the CONSULTANT, and that PBCWUD will be issuing any addendum(s).

#### **4.5 Review Compiled Bid Results, Verify Bid Package for the Lowest Bidders, Provide Summary of Findings to PBCWUD:**

PBCWUD has preferred to compile received Bid results in the past, thus it is assumed that PBCWUD will compile the received Bid results, check the compiled bids for mathematical or entry errors, and shall coordinate with the Palm Beach County Office of Equal Business Opportunity (OEBO) to provide a calculation/decision on any required adjustments to the rankings of the three (3) lowest Base Bidders as required per applicable Local, Small and Minority Business Enterprise preferences/requirements advertised in the Bid. PBCWUD shall then provide all submitted data to the CONSULTANT for the three (3) lowest Base Bidders in addition to the Bidder ranking adjustment calculation/decision by Palm Beach County OEBO.

It is assumed the CONSULTANT shall review the compiled bid results and verify responsiveness of the three (3) lowest bidder(s) bid packages; however, should PBCWUD request it, the CONSULTANT shall be prepared to review up to the lowest five (5) base bidders' packages.

The CONSULTANT shall first verify the provided facts in the provided bid packages, then shall contact all listed references for at least five (5) consecutive business days in an effort to verify past project experience and effectiveness as listed by the three lowest base bidders. The CONSULTANT shall take notes on the conversations with responsive references in order to summarize these communications and resulting assessment of the applicability of the lowest three bidders' provided past experience to the subject project. The CONSULTANT is not responsible for the lack of responsiveness by the Bidders listed references.



The CONSULTANT shall review the three (3) lowest base bidder's unit prices, bringing any significantly unusual Unit prices to PBCWUD's attention. The CONSULTANT shall not be responsible for determining whether or not a bid is "unbalanced" or "front-loaded"; however, if requested by PBCWUD can provide an opinion based on numerical analysis related to the individual Bid Items and Measurement & Payment sections for PBCWUD's review and consideration.

It is assumed that minimum experience/qualifications will not be included in this project's advertised public Bid.

Following the evaluation of the three lowest base bidders' submitted bid packages, the CONSULTANT shall summarize their verifications, findings, and conclusions and prepare a recommendation letter for consideration by PBCWUD in awarding the project to a prospective bidder.

Services in assistance to PBCWUD related to a Bid protest are not included in this CSA, but can be provided via a supplement to this CSA at PBCWUD's request and approval.

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**Supplemental Services:**

**1. Assistance Towards Public Engagement / Coordination for Temporary and Permanent Easements (with Foresight Communications); General Coordination with the City Regarding Resurfacing Projects:**

The CONSULTANT shall assist the PBCWUD Public Outreach Consultant's (Foresight Communications) efforts to communicate with and educate the property owners that are affected by this project's improvements. The CONSULTANT shall prepare exhibits to be provided to Foresight Communications to facilitate communication with private property owners regarding agreements to provide PBCWUD with requested Temporary Construction Authorizations, as well as Permanent Utility easements necessary per PBCWUD Standards. The CONSULTANT shall also prepare exhibits to be provided to Foresight Communications for distribution to the property owners as a means of facilitating communication regarding the project's general timeline leading up to and at the onset of construction, as well as the general impacts that property owners can expect during the construction of the necessary improvements within the various project areas. The CONSULTANT shall review and comment on all related documents prepared by Foresight Communications to submit to the property owners, and shall make every reasonable attempt to assist Foresight Communications' efforts to provide informed answers to affected property owner's submitted or communicated questions.

All utilized public outreach exhibits produced by the CONSULTANT shall be included in the Final Deliverables as requested by PBCWUD staff.

The CONSULTANT shall assist PBCWUD in their efforts to maintain continual communication with the City regarding FDOT-funded city-wide resurfacing projects as they progress and as new projects are conceptualized. The CONSULTANT shall attempt to continually coordinate with the City's in-house consultant, soliciting updated data regarding the current status, limits and anticipated scheduling of the City's FDOT-funded city-wide resurfacing projects as well as any other upcoming improvement projects that may coincide or conflict with this project's improvements.

This effort on the part of the CONSULTANT is meant to be in aid to the greater effort on the part of the City and PBCWUD to exchange information related to each entities' ongoing projects. The CONSULTANT will not be held responsible for the accuracy or the timeliness of any information provided by the City's in-house consultant, nor for any deviations made on the part of the City's contractor while scheduling or performing the City's projects.

The CONSULTANT shall review data received from the City's in-house consultant. Regarding this

CSA, the included CONSULTANT services related to this effort are limited to review of the provided City Resurfacing project information and the potential impacts to this project's improvements, not related to other and/or future PBCWUD projects. Generating exhibits summarizing or related to this data is not included in this CSA, and can be provided via supplement to this CSA upon request and prior authorization by PBCWUD.

No public meeting attendance by the CONSULTANT is included in this CSA.

*Note: In the course of its services for this task the CONSULTANT is inevitably faced with situations the outcome of which directly impact this Task's pace or even success. However, the CONSULTANT, by the nature of the services introduced by this scope being acquisition of temporary/permanent easements from the property owners, has no control of the outcome. As such, as long as reasonable attempts have been made by the CONSULTANT, the outcome of these efforts, if unsuccessful, shall not be construed as CONSULTANT's failure or breach of the contract. CONSULTANT makes no expressed or implied guarantees of the successful acquisition of all easements needed.*

## **2. Title Search Coordination and Review; Sketch and Legal Preparation for Permanent Easements:**

This CSA includes the following services related to coordinating and reviewing a Title Search performed on eight (8) properties, and the corresponding sketch and legal description services for eight (8) permanent utility easements.

Upon request and approval by PBCWUD, the CONSULTANT shall coordinate to have Title Search services performed as a direct expense and invoiced by a Palm Beach County approved Title Agency. The CONSULTANT shall review the provided title search results and reflect all shown encumbrances on the construction plans as a result of these efforts.

Upon approval from PBCWUD, the CONSULTANT shall prepare a sketch and legal description sufficient for public recordation purposes of any permanent utility easements necessary per PBCWUD Utility standards. Currently, it is assumed that up to eight (8) utility easements will be required, each requiring a separate sketch and legal description prepared in a similar fashion and to similar degrees of specificity/effort.

The CONSULTANT shall also coordinate with PBCWUD, Foresight Communications and any applicable private property owners to provide the digital sketch and legal description document for review and execution prior to recordation by PBCWUD.

All Sketch and Legal Descriptions produced by the CONSULTANT shall be included in the Final Deliverables as requested by PBCWUD staff. All Title Search results shall be included in the Final Deliverables if requested by PBCWUD staff.

## **3. Permitting and Notification Coordination for Sub-Consultant Efforts (As Needed):**

Should Palm Beach County, or the City require a Right-of-way permit or Maintenance-of-Traffic (MOT) Application be submitted for the work by the SUE or Geotechnical sub-consultants within their respective right-of-ways, the CONSULTANT and sub-consultants shall coordinate with the appropriate individuals and/or departments to submit for the required R/W permit(s).

For PBC, the sub-consultants shall prepare one (1) PBC MOT Application each, if required, and submit it to PBC Traffic Department related to the performance of geotechnical soil borings and SUE activities within PBC R/W. The sub-consultant shall track the permit review and approval progress, and respond to requests for additional information that must be provided towards the approval of the subject PBC MOT Application. This assumes the sub-consultants will provide all necessary accompanying information for the subject PBC MOT Application and will be responsible for any close-out requirements.

For the City of Belle Glade, the CONSULTANT shall coordinate with the City's Building Department and/or the City's In-House Consultant to submit up to one (1) R/W permit application, if required, for the sub-consultants to perform their work. This assumes the sub-consultants will

provide all necessary accompanying information for the subject R/W permit.

Under this task, the CONSULTANT shall also notify PBC and the City via call or writing of the approximate scheduling for geotechnical and SUE activities.

The CONSULTANT shall not be responsible for any changes in either sub-consultants' field work schedule that does not allow for accurate prior notification to the R/W owner(s).

The CONSULTANT shall not be responsible for the preparation or submittal of signed and sealed MOT plans if required for any application related to geotechnical or SUE work within any R/W.

**4. Subsurface Utility Exploration (InfraMap Corp.);**  
**(Proposal included in Attachment "E")**

InfraMap shall scan the limits of specific strategic areas within the project limits using ground penetrating radar and other methods, as described in their proposal, to identify the approximate horizontal location of wet and dry utilities. Utilities located will be painted or flagged in the field for acquisition by the CONSULTANT's field survey crew. The results of the targeting/scanning will be provided in the form of color-coded sketches identifying the various utilities detected in approximate location trend and configuration. Up to fifteen (15) days of scanning are included in this CSA. InfraMap's proposal also includes mileage direct expenses, and as needed administrative fees.

InfraMap shall perform soft digs to provide subsurface information at each of the designated locations and will provide exhibits of the results for each soft dig. Up to fifty-eight (58) soft digs to a depth of six (6) feet are included with this CSA.

InfraMap's proposal also includes mileage, direct expenses, fees for traffic control flagging, and the use of an arrow board as supplemental fees to be billed as direct expenses should they be required to perform the above referenced soft digs. Implementation and maintenance of necessary maintenance of traffic (MOT) measures are covered under InfraMap's proposal. If the requested utilities are deeper than six (6') feet, InfraMap's proposal includes a contingent as needed fee per foot beyond the included six (6') foot deep soft digs. Should an application of some fashion be required for SUE work within any Florida Department of Transportation (FDOT) or Palm Beach County R/W, InfraMap will prepare and submit the applications for approval by the R/W owner.

**5. Geotechnical Exploration (Tierra South Florida, Inc.);**  
**(Proposal included in Attachment "E")**

The Geotechnical Sub-consultant (Tierra) shall acquire twelve (12) Standard Penetration Test (SPT) borings to a depth of six (6) feet below the surface, twelve (12) SPT borings to a depth of ten (10) feet below the surface, and nine (9) asphalt cores within the limits of the project area, at pre-coordinated locations. Any encountered unsuitable soils will be identified for consideration during the design process. The results of the asphalt cores and SPT borings will be summarized in a report of findings and recommendations prepared by Tierra for consideration during the design process and inclusion in the public Bid package. The report and AutoCAD software-generated plotted log of each boring profile will be submitted to PBCWUD as a Final Deliverable. The approximate locations of each bore and the respective bore profiles shall be incorporated in a dedicated construction plan sheet of the construction drawings for reference by the contractor.

Tierra's proposal also includes optional supplemental fees to implement any MOT measures necessary for the performance of their work. Additionally, Tierra's proposal includes optional supplemental fees to prepare a MOT plan should it be required by the City of Belle Glade in order to perform their work within the City R/W.

Deliverables

A summary of the project documents to be provided as deliverables includes:

1. Photos and/or videos of the site visits provided digitally;
2. Utility location exhibits provided by the utility providers in electronic format and hard copies;
3. Meeting summaries from the kickoff meeting and design review workshops provided digitally;
4. Two (2) 24" x 36", one (1) 11"x17" sets of the 60% design plans;
5. One (1) copy of the 60% OPCC (within one week of design submittal);
6. Two (2) 24" x 36", one (1) 11"x17" sets of the 90% design plans;
7. One (1) copy of the 90% OPCC (within one week of design submittal);
8. Four (4) 24" x 36" and Two (2) 11"x17", signed and sealed, sets of the 100% design plans and specifications with two (2) hard copies of the Final OPCC
9. One (1) Compact Disc (CD) containing copies of all permit applications and correspondence with permitting entities;
10. "Permit Book", including a hard copy of all acquired permits and a summary of all permits with expiration dates;
11. Copies of the Subsurface Utility Engineering scanning and soft dig results provided digitally;
12. One (1) signed and sealed copy of the Geotechnical Engineer's report and one (1) digital copy of same;
13. Four (4) Signed and sealed hard copy legal descriptions and sketches;
14. Digital copies of any title searches performed;
15. Microsoft Word and portable document format (PDF) copies of technical specifications and addenda prepared; and
16. One (1) CD containing all digital Final deliverables, AutoCAD files, PDFs, etc.

**ATTACHMENT B**

**SUMMARY AND STATUS OF CONSULTANT SERVICES AUTHORIZATIONS**

Auth. No.	PBCWUD Project No.	Title	Status	Project Total Amount	SBE Total Amount	SBE Participation %	By	Approved	Date
1	21-033	Belle Glade Water Main Improvements; SE Zone 4 Water System Replacement	Pending	\$ 571,537.68	\$496,050.00	86.79%			
2	21-047	Belle Glade Water Main Improvements; SE Zone 6 Water System Replacement	Pending	\$ 614,111.43	\$537,402.00	87.50%			

**ATTACHMENT C**

**OEBO SCHEDULE 1**

**Office of Equal Business Opportunity Compliance Programs**

## OEBO SCHEDULE 1

### LIST OF PROPOSED CONTRACTOR/CONSULTANT AND SUBCONTRACTOR/SUBCONSULTANT PARTICIPATION

Belle Glade Water Main Improvements; SE Zone 6  
Water System Replacement

**SOLICITATION/PROJECT/BID NAME:** Belle Glade Water Main Improvements; SE Zone 6 Water System Replacement

**SOLICITATION/PROJECT/BID No.:** PBCWUD 21-047

**NAME OF PRIME RESPONDENT/BIDDER:** Keshavarz & Associates, Inc.

**ADDRESS:** 711 N. Dixie Highway, Suite 201, West Palm Beach, FL 33401

**CONTACT PERSON:** Amir Keshavarz, P.E.

**PHONE NO.:** (561) 689-8600 **E-MAIL:** Amir@keshavarz.com

**SOLICITATION OPENING/SUBMITTAL DATE:** 3/10/2021

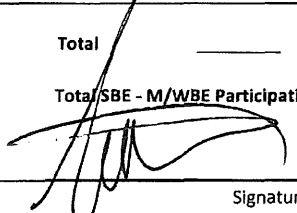
**DEPARTMENT:** Palm Beach County Water Utilities Department

**PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME CONTRACTOR/CONSULTANT ON THIS PROJECT. PLEASE ALSO LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SUBCONTRACTORS/SUBCONSULTANTS ON THE PROJECT.**

Name, Address and Phone Number	(Check all Applicable Categories)			DOLLAR AMOUNT OR PERCENTAGE OF WORK				
	Non-SBE	M/WBE Minority/Women Business	SBE Small Business	Black	Hispanic	Women	Caucasian	Other (Please Specify)
1. Keshavarz & Associates, Inc. 711 N. Dixie Hwy, #201, West Palm Beach, FL 33401 (561) 689-8600	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	_____	_____	\$ 537,402.00 (Asian)
2. InfraMap Corp. 1860 Old Okeechobee Rd, #201, West Palm Beach, FL 33409 (561) 586-0790	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	\$ 58,297.43	_____
3. Tierra South Florida, Inc. 2765 Vista Parkway #10, West Palm Beach, FL 33411 (561) 687-8536	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	\$ 18,412.00 (Non-S/MBE)
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____
Total							\$ 58,297.43	\$ 537,402.00 (Asian)
Total Bid Price \$ <u>614,111.43</u>							Total SBE - M/WBE Participation <u>\$537,402.00</u> (18,412.00 Non S/MBE)	

(Please use additional sheets if necessary)

I hereby certify that the above information is accurate to the best of my knowledge:

  
 \_\_\_\_\_  
 Signature

Amir Keshavarz, P.E., Senior Project Manager  
 \_\_\_\_\_  
 Title

**Note:**

1. The amount listed on this form for a Subcontractor/subconsultant must be supported by price or percentage listed on the properly executed Schedule 2 or attached signed proposal.
2. Firms may be certified by Palm Beach County as an SBE and/or an M/WBE. If firms are certified as both an SBE and/or M/WBE, please indicate the dollar amount under the appropriate category.
3. Modification of this form is not permitted and will be rejected upon submittal.

**ATTACHMENT C**

**OEBO SCHEDULE 2**

Office of Equal Business Opportunity Compliance Programs

Revised 02/11/2021

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**OEBO LETTER OF INTENT – SCHEDULE 2**

**A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2, both parties recognize this Schedule as a binding document.** All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: PBCWUD 21-047  
 SOLICITATION/PROJECT NAME: Belle Glade Water Main Improvements; SE Zone 6 Water System Replacement

Prime Contractor: Keshavarz & Associates, Inc. Subcontractor: Keshavarz & Associates, Inc.

**(Check box(s) that apply)**  
 SBE  WBE  MBE  M/WBE  Non-S/M/WBE Date of Palm Beach County Certification (if applicable): 10/4/2019 - 10/3/2022

The undersigned affirms they are the following (select one from each column if applicable):

<b>Column 1</b>	<b>Column 2</b>	<b>Column 3</b>
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> African-American/Black <input checked="" type="checkbox"/> Asian American <input type="checkbox"/> Caucasian American	<input type="checkbox"/> Supplier
	<input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	

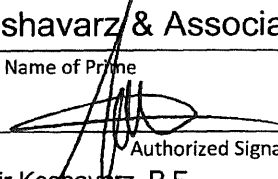
**S/M/WBE PARTICIPATION** – S/M/WBE Primes must document all work to be performed by their own work force on this form. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
1	Preliminary Meetings, Field Visits, Utility Coordination				\$ 86,928.00
2	Water System Replacement Survey and Design				\$354,132.00
3	Permitting Services				\$ 25,890.00
4	Bid Support Services				\$ 31,692.00
5	Supplemental Services				\$ 32,130.00
	Reimbursable Expenses				\$ 6,630.00

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$ 537,402.00

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

InfraMap Corp. / Tierra South Florida, Inc. Price or Percentage: \$58,297.43 / \$18,412.00  
 Name of 2<sup>nd</sup>/3<sup>rd</sup> tier Subcontractor/subconsultant

Keshavarz & Associates, Inc.  
 Print Name of Prime  
 By:   
 Authorized Signature  
Amir Keshavarz, P.E.  
 Print Name  
Senior Project Manager  
 Title  
 Date: 3/10/2021

Keshavarz & Associates, Inc.  
 Print Name of Subcontractor/subconsultant  
 By:   
 Authorized Signature  
Amir Keshavarz, P.E.  
 Print Name  
Senior Project Manager  
 Title  
 Date: 3/10/2021

**OEBO LETTER OF INTENT – SCHEDULE 2**

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2, both parties recognize this Schedule as a binding document. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: PBCWUD 21-047  
 SOLICITATION/PROJECT NAME: Belle Glade Water Main Improvements; SE Zone 6 Water System Replacement

Prime Contractor: Keshavarz & Associates, Inc. Subcontractor: InfraMap Corp.

**(Check box(s) that apply)**

SBE  WBE  MBE  M/WBE  Non-S/M/WBE Date of Palm Beach County Certification (if applicable): N/A

The undersigned affirms they are the following (select one from each column if applicable):

<b>Column 1</b>	<b>Column 2</b>	<b>Column 3</b>
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> African-American/Black <input type="checkbox"/> Asian American <input checked="" type="checkbox"/> Caucasian American	<input type="checkbox"/> Supplier
	<input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	

**S/M/WBE PARTICIPATION** – S/M/WBE Primes must document all work to be performed by their own work force on this form. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
1	Subsurface Utility Engineering - Targeting				\$26,169.33
2	Subsurface Utility Engineering - Test Hole Services				\$32,128.10

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$ 58,297.43

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A Price or Percentage: \_\_\_\_\_

Name of 2<sup>nd</sup>/3<sup>rd</sup> tier Subcontractor/subconsultant

Keshavarz & Associates, Inc.

Print Name of Prime

By: [Signature]  
Authorized Signature

Amir Keshavarz, P.E.

Print Name

Senior Project Manager

Title

Date: 3/10/2021

InfraMap Corp.

Print Name of Subcontractor/subconsultant

By: [Signature]  
Authorized Signature

Andres Garcia

Print Name

Senior Utility Location Manager

Title

Date: 3/10/2021



10365 South Cedar Lane  
Glen Allen, VA 23059  
1860 Old Okeechobee Road, Unit 201  
West Palm Beach, FL 33409  
804-550-2937 561-586-0790 [www.inframap.net](http://www.inframap.net)

Palm Beach County Board of Commissioners  
345 S Congress Ave, Delray Beach, FL 33445  
Attn: Board of County Commissioners

October 22, 2020

RE: PBCWUD Utility Distribution & Collection System Engineering Services, 19-082

To Whom It May Concern:

Please accept this letter as formal notice that for this contract, PBCWUD Utility Distribution & Collection System Engineering Services, 19-082, as noted in the subject line, Michael Goodman is designated as an authorized signer.

Thank you,

A handwritten signature in black ink, appearing to read "Paul Hayes", is written over a faint, illegible printed name.

Paul Hayes, President

InfraMap Corp.

***Complete Subsurface Utility Engineering and Utility Infrastructure Mapping Since 1987***

**OEBO LETTER OF INTENT – SCHEDULE 2**

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. The Schedule 2 shall contain bolded language indicating that by signing the Schedule 2, both parties recognize this Schedule as a binding document. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: PBCWUD 21-047  
 SOLICITATION/PROJECT NAME: Belle Glade Water Main Improvements; SE Zone 6 Water System Replacement

Prime Contractor: Keshavarz & Associates, Inc. Subcontractor: Tierra South Florida, Inc.

**(Check box(s) that apply)**  
 SBE  WBE  MBE  M/WBE  Non-S/M/WBE Date of Palm Beach County Certification (if applicable): N/A

The undersigned affirms they are the following (select one from each column if applicable):

<b>Column 1</b>	<b>Column 2</b>	<b>Column 3</b>
<input checked="" type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> African-American/Black <input checked="" type="checkbox"/> Asian American <input type="checkbox"/> Caucasian American	<input type="checkbox"/> Supplier
	<input type="checkbox"/> Hispanic American <input type="checkbox"/> Native American	

**S/M/WBE PARTICIPATION** – S/M/WBE Primes must document all work to be performed by their own work force on this form. Failure to submit a properly executed Schedule 2 for any S/M/WBE participation may result in that participation not being counted. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. S/M/WBE credit will only be given for the areas in which the S/M/WBE is certified. A detailed proposal may be attached to a properly executed Schedule 2.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
1	6.01 - Geotechnical Engineering Services				\$ 18,412.00

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$ 18,412.00

If the undersigned intends to subcontract any portion of this work to another Subcontractor/subconsultant, please list the business name and the amount below accompanied by a separate properly executed Schedule 2.

N/A Price or Percentage: \_\_\_\_\_  
 Name of 2<sup>nd</sup>/3<sup>rd</sup> tier Subcontractor/subconsultant

Keshavarz & Associates, Inc.  
 Print Name of Prime  
 By: [Signature]  
 Authorized Signature  
Amir Keshavarz, P.E.  
 Print Name  
Senior Project Manager  
 Title  
 Date: 3/10/2021

Tierra South Florida, Inc.  
 Print Name of Subcontractor/subconsultant  
 By: [Signature]  
 Authorized Signature  
Raj Krishnasamy, P.E.  
 Print Name  
President  
 Title  
 Date: 3/10/2021

# ATTACHMENT D

## PROJECT SCHEDULE

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

<u>Engineering Services</u>	<u>Completion Date from Notice to Proceed</u>
<b>Task 1. Preliminary Design Services</b>	
1.1 Project Management, Research, Project Orientation, and Kick-off	540 Calendar Days
1.2 Preliminary Meetings and Coordination with Regulatory Agencies	180 Calendar Days
1.3 Field Visit(s) and Coordination with O&M Staff	225 Calendar Days
1.4 Utility Coordination	90 Calendar Days
<b>Task 2. Infrastructure Replacement Survey and Design Services</b>	
2.1 Coordination with Subsurface Utility Engineering (SUE) and Geotechnical Engineering Sub-Consultants for Field Investigations	270 Calendar Days
2.2 Field Acquisition of SUE Efforts and Depiction of Results on Construction Plans	300 Calendar Days
2.3 Route Survey and 2.4 Topographic Survey	180 Calendar Days
2.5 60% Design Stage	225 Calendar Days
2.6 90% Design Stage	315 Calendar Days
2.7 100% / Final Design Stage	360 Calendar Days
2.8 Preparation of Engineer's Opinion of Probable Construction Cost	367 Calendar Days
<b>Task 3. Permitting Services with Regulatory Agencies for Proposed Water Main Infrastructure Improvements</b>	390 Calendar Days
<b>Task 4. Bidding Support Services</b>	540 Calendar Days
<b>TOTAL ANTICIPATED DURATION</b>	<b>540 CALENDAR DAYS</b>

Revised 02/11/2021

**ATTACHMENT – E  
BUDGET SUMMARY**

Palm Beach County Water Utilities Department  
 Contract for Consulting/Professional Services: Utility Distribution and Collection System Engineering Services  
 Resolution #R2020-1898 Contract Dated December 15, 2020  
 Consultant Service Authorization: 2  
 Consultant: Keshavarz & Associates, Inc.  
 Project name: Belle Glade Water Main Improvements; SE Zone 6 Water System Replacement  
 WUD Project No.: 21-047

**BUDGET SUMMARY**

Labor Classification and Hourly Rate													
Task		Project Director / Principal \$/hr	Senior Project Manager \$/hr	Sr Project Eng / Sr Surveyor \$/hr	Project Eng. / Project Surveyor \$/hr	GIS / Eng CADD Specialist \$/hr	Const Project Representative \$/hr	Survey Crew \$/hr	Utility / Permit Coord \$/hr	Project / Contract Admin \$/hr	Clerical \$/hr	CONSULTANT Total	Sub Consultant Total
Number	Task Description	\$ 216.00	\$ 210.00	\$ 168.00	\$ 126.00	\$ 114.00	\$ 135.00	\$ 150.00	\$ 90.00	\$ 90.00	\$ 60.00	Services	Services
Task 1.1	Project Management, Research, Project Orientation and Kick-off	58	88	56	40	0	0	0	0	120	20	\$ 57,456.00	\$ -
Task 1.2	Preliminary Meetings and Coordination with Regulatory Agencies	7	16	6	10	0	0	0	14	0	10	\$ 9,000.00	\$ -
Task 1.3	Field Visit(s) and Coordination with O&M Staff	6	16	12	14	0	0	0	0	0	0	\$ 8,436.00	\$ -
Task 1.4	Utility Coordination	1	6	10	14	24	0	0	40	6	4	\$ 12,036.00	\$ -
Task 2.1	Coordination with Subsurface Utility Exploration and Geotechnical Exploration Sub-Consultants for Field Investigations	4	22	12	18	34	0	0	6	4	2	\$ 14,664.00	\$ -
Task 2.2	Field Acquisition of Subsurface Utility Exploration Efforts and Depletion of Results on Construction Plans	1	13	14	22	32	0	112	0	4	2	\$ 28,998.00	\$ -
Task 2.3	Route Survey	2	10	44	10	71	0	90	0	4	6	\$ 33,498.00	\$ -
Task 2.4	Topographic Survey	1	8	30	40	160	0	310	0	4	8	\$ 77,558.00	\$ -
Task 2.5	60% Design	16	72	134	84	320	0	0	5	12	18	\$ 90,762.00	\$ -
Task 2.6	90% Design	16	50	98	60	285	0	0	5	9	14	\$ 72,570.00	\$ -
Task 2.7	100% / Final Design	6	18	34	30	78	0	0	5	8	10	\$ 25,230.00	\$ -
Task 2.8	Preparation of Engineer's Opinion of Probable Construction Cost(s)	2	10	10	18	16	14	0	0	2	8	\$ 10,854.00	\$ -
Task 3	Permitting Services with Regulatory Agencies for Proposed Infrastructure Improvements	10	19	30	32	32	0	0	60	6	18	\$ 25,890.00	\$ -
Task 4.1	Review Front End Documents, Prepare Project Description, Summary of Work, Bid Tabulation, Summary of Pay Items	6	12	6	6	0	8	0	0	0	8	\$ 7,140.00	\$ -
Task 4.2	Preparation of Technical Specifications	8	12	8	6	0	8	0	0	0	8	\$ 7,808.00	\$ -
Task 4.3	Pre-Bid Meeting Attendance	0	2	0	1	0	2	0	0	0	1	\$ 876.00	\$ -
Task 4.4	Response to Contractor Requests for Information and Addendum Issuance Assistance to PBCWUD	4	6	8	0	0	8	0	0	0	8	\$ 5,028.00	\$ -
Task 4.5	Review Compiled Bid Results, Verify Bid Package for the Lowest Bidders, Provide Summary of Findings to PBCWUD	10	18	10	0	0	16	0	0	0	16	\$ 10,740.00	\$ -
	<b>Subtotal Services</b>											<b>\$ 498,642.00</b>	<b>\$ -</b>
Supplemental No. 1	Assistance Towards Public Engagement / Coordination for Temporary and Permanent Easements (With Foresight Communications); General Coordination with the City regarding Resurfacing Projects (As Needed)	4	18	6	14	16	0	0	0	8	12	\$ 10,880.00	\$ -
Supplemental No. 2	Title Search Coordination and Review; Sketch and Legal Preparation for Permanent Easements (As Needed) - Assumes Eight (8) Title Searches and Eight (8) Permanent Easements	2	6	56	12	32	0	0	0	8	16	\$ 17,940.00	\$ -
Supplemental No. 3	Permitting and Notification Coordination for Sub-consultant Efforts (As needed)	1	6	3	2	2	0	0	8	1	4	\$ 3,510.00	\$ -
Supplemental No. 4	Subsurface Utility Engineering (IntraMap Corp. Includes as needed MOT, Permitting, etc.)	0	0	0	0	0	0	0	0	0	0	\$ -	\$ 58,297.43
Supplemental No. 5	Geotechnical Exploration (Terra South Florida, Inc. Includes as needed MOT, Permitting, etc.)	0	0	0	0	0	0	0	0	0	0	\$ -	\$ 18,412.00
	<b>Subtotal Supplemental Services</b>											<b>\$ 32,130.00</b>	<b>\$ 76,709.43</b>
	<b>Labor Subtotal Hours</b>	165	428	587	433	1102	56	512	143	196	193		
	<b>Labor Raw Costs</b>	\$ 72.00	\$ 70.00	\$ 56.00	\$ 42.00	\$ 38.00	\$ 45.00	\$ 50.00	\$ 30.00	\$ 30.00	\$ 20.00		
	<b>Labor Multiplier</b>	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00		
	<b>Labor Sub Total</b>	\$ 216.00	\$ 210.00	\$ 168.00	\$ 126.00	\$ 114.00	\$ 135.00	\$ 150.00	\$ 90.00	\$ 90.00	\$ 60.00		
	<b>Labor Total</b>	\$ 530,772.00											
	<b>Sub-Consultant Labor Total</b>	\$ 76,709.43											
	<b>Sub-Consultant Multiplier</b>	1.00											
	<b>Sub-Consultant Total</b>	\$ 76,709.43											
	<b>Reimbursable, Mileage, Copies, Prints, Deliveries (As Needed Direct Expenses Per Rates &amp; Projections attached)</b>	\$ 6,630.00											
	<b>Project Total</b>	\$ 614,111.43											

**ATTACHMENT – E**

**Palm Beach County Water Utilities Department**  
**Contract for Consulting/Professional Services: Utility Distribution and Collection System Engineering Services**  
**Resolution #R2020-1898      Contract Dated December 15, 2020**  
**Consultant Service Authorization: 2**  
**Consultant: Keshavarz & Associates, Inc.**  
**Project name: Belle Glade Water Main Improvements; SE Zone 6 Water System Replacement**  
**WUD Project No.: 21-047**

<i>Reimbursable / Direct Expenses</i>	<i>Rates</i>
8½" x 11" Prints / Copies (black/white)	\$ 0.25
8½" x 11" Prints / Copies (color)	\$ 1.00
11" x 17" Prints / Copies (black/white)	\$ 0.50
11" x 17" Prints / Copies (color)	\$ 1.00
24" x 36" Prints / Copies (black/white)	\$ 1.50
24" x 36" Prints / Copies (color)	\$ 3.50
Mileage (in accordance with IRS Rates)	\$ 0.565
Bond Copies By Vendor (Billed at Cost - Vendor invoices to be provided when billed)	As Invoiced by Vendor
Deliveries / Courier Service By Vendor (Billed at Cost - Vendor invoices to be provided when billed)	As Invoiced by Vendor
Title Search By Approved Vendor (Billed at Cost - Vendor invoices to be provided when billed)	As Invoiced by Vendor

Projected Reimbursable Expenses	Projected Quantity	Unit Cost	Projected Cost
<b>DIRECT EXPENSES</b>			
1 8½" x 11" Prints / Copies (black/white)	80	\$ 0.25	\$ 20.00
2 8½" x 11" Prints / Copies (color)	20	\$ 1.00	\$ 20.00
3 11" x 17" Prints / Copies (black/white)	68	\$ 0.50	\$ 34.00
4 11" x 17" Prints / Copies (color)	15	\$ 1.00	\$ 15.00
5 24" x 36" Prints / Copies (black/white)	20	\$ 1.50	\$ 30.00
6 24" x 36" Prints / Copies (color)	10	\$ 3.50	\$ 35.00
6 Mileage (in accordance with IRS Rates)	5400	\$ 0.565	\$ 3,051.00
7 Bond Copies By Vendor (Billed at Cost - Vendor invoices to be provided when billed)	950	Est. Invoiced Cost	\$ 825.00
8 Deliveries / Courier Service By Vendor (Billed at Cost - Vendor invoices to be provided when billed)	5	Est. Invoiced Cost	\$ 200.00
9 Title Search By Approved Vendor (Billed at Cost - Vendor invoices to be provided when billed)	8	Est. Invoiced Cost	\$ 2,400.00
<b>Total Projected As Needed Reimbursable Expenses</b>			<b>\$6,630.00</b>



Date: March 10, 2021

Presented to: Keshavarz & Associates  
711 North Dixie Highway, Suite 201  
West Palm Beach, FL 33401  
Phone No.: 561-689-8600

Attn: Amir Keshavarz, P.E.

Project name: Belle Glade Water Main Improvements; SE Zone 6 Water System Replacement, WUD Project No. 21-047  
Utility Targeting and Test Hole Services

As requested, InfraMap Corporation (IMC) has prepared this proposal for utility infrastructure investigation services for the above referenced project. This proposal is based upon the best information available to InfraMap regarding site conditions at the time of writing. This proposal does not represent a lump sum fee to perform these services. The proposed fee will not be exceeded without the expressed consent of the client.

**Project limits and description:** Target utilities (excluding sanitary and storm) within the areas to be chosen by the client. Additionally, perform up to fifty-eight (58) test holes. Location of test holes will be chosen by client.

**Services to be provided:** Utility Targeting and Test Hole services as described in attachments "A" & "B".

**Notes:** InfraMap does not prepare signed & sealed MOT plans. InfraMap will apply for all necessary FDOT and Palm Beach County right of way permits. Field sketches will be provided to client. Survey to be performed by others.

<u>FEE SCHEDULE</u>	<u>ESTIMATED FEE</u>	
<b><u>Targeting Services</u></b>	<b><u># Hours/Units</u></b>	<b><u>\$s</u></b>
Targeting @ \$1,692.37/day	15	\$25,385.55
Administrative: \$69.78/hr.	1	\$ 69.78
 <b><u>Direct Expenses</u></b>		
Mileage: \$0.56 per mile (IRS rate)	1,275mi	<u>\$ 714.00</u>
	<b><u>TOTAL ESTIMATED FEE</u></b>	<b><u>\$26,169.33</u></b>

*Complete Utility Infrastructure Surveying and Mapping Since 1987*

10365 Cedar Lane | Glen Allen, VA 23059 | 804.550.2937 | Fax 804.550.3296 | 800.863.3748 | www.inframap.net



<u>Test Hole Services</u>	<u># Hours/Units</u>	<u>\$s</u>
0' to 6': \$510.45/ea.	58	\$ 29,606.10
Contingent feet: \$ 112.00/ft. (Test holes beyond 6' in depth)	9	\$ 1,008.00
<u>Direct Expenses</u>		
Mileage: \$0.56 per mile (IRS rate)	1,190mi	\$ 666.40
<u>Traffic Control (if/as needed)</u>		
Arrow Board: \$80.00/day	2	\$ 160.00
Permit: \$180.00 (estimate)	1	\$ 180.00
Flagger: \$63.45/hr.	8	\$ 507.60
<b>TOTAL ESTIMATED FEE</b>		<b>\$ 32,128.10</b>

This estimate is not a lump sum fee and is valid for 90 days. This estimate is good for targeting and test hole services on utilities within the project limits as herein defined, and will not be exceeded without the expressed consent of the client.

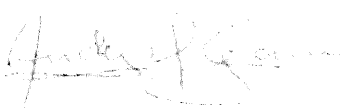
### PAYMENT TERMS

Terms of payment are subject to modification by seller (InfraMap). Buyer (client) agrees to make prompt payment of invoices due in accordance with Seller's approved terms, whether for complete or partial services. Terms: Net 30 days from completion of work and receipt of invoice. If payment is contingent upon Buyer being paid by a "Third Party" for services, InfraMap Corp. (InfraMap) must be notified immediately of the name and address of the "Third Party". Buyer will submit invoices to the "Third Party" in a timely manner and InfraMap will receive payments from Buyer within 15 days of Buyer being paid. If this is not the case then InfraMap reserves the right to modify this clause to reflect a revised payment schedule.

Late Charge: A late payment service charge equal to 1.5% per month or the maximum charge allowed by applicable law, whichever is lower, shall be assessed on all amounts not paid when due. All accounts are net 30 days unless specifically agreed upon in writing.

Delinquency Collections: In the event Buyer fails to pay for any services when due, or should Buyer's account become otherwise delinquent, or in the event of Buyer's bankruptcy or insolvency, or in the event of Buyer's breach of this Agreement, then in any such event Seller may, at its option: (i) terminate any or all existing contracts; (ii) refuse to perform services under this or any other order; and/or (iii) avail itself of any other further remedies available to it at law or in equity. Buyer agrees to pay all cost of collection, including reasonable attorney's fees.

This service will be provided with due diligence and in a manner consistent with standards of the professional utility infrastructure mapping profession. InfraMap does not guarantee that all existing utility systems can or will be detected. It may not be possible to detect all utilities, such as but not limited to systems that are not depicted on records available to us, and systems rendered undetectable due to unfavorable site conditions. Use of this service does not relieve interested parties from their responsibility to make required notifications prior to excavation. Use of this service does not relieve utility owners of their responsibility to mark the location of their facilities prior to excavation. InfraMap Corp. will not be responsible for damages to utilities caused by others.

Presented by:  March 10, 2021  
\_\_\_\_\_  
Andres Garcia Date  
Senior Utility Location Manager  
InfraMap Corp.

Accepted:  3/10/2021  
\_\_\_\_\_  
Authorized Signature Date

## Attachment A

### **SUBSURFACE UTILITY TARGETING SERVICE SCOPE OF WORK**

In the performance of subsurface utility targeting, InfraMap Corp. proposes to:

1. Utilize client provided records from utility companies, unless stated as an InfraMap function in the scope statement. Gathered materials will be used as an aid in the identification of the number, identity, size and material of utilities located in the field, and will not be used as a substitute for actual geophysical location unless the system cannot be verified electronically using industry standard techniques for this level of investigation.
2. Conduct a thorough electronic search of the site for the buried utility systems shown on records acquired. Also, conduct an electronic grid sweep of the site to search for utilities that do not appear on available records, and attempt to determine type. This investigation will be accomplished using active and passive type utility detection gear that detects induced or naturally occurring energy fields present on conductive utilities. This investigation is not a ground penetrating radar sweep, nor will ground penetrating radar be used, unless specifically requested. The targeting of subsurface utilities, although highly reliable, is expressly understood to represent an approximate location of the target facility as marked on the ground surface. The accuracy of this targeting is subject to certain factors beyond our control such as limitations of available technology and field conditions that may include, but are not limited to: depth of utility, electrical conductivity of utility, site conditions and access. Where nonconductive or nonlocatable utilities are present, we will attempt to use all available information to place targeting in the field for those systems and generate notes for each such utility.
3. Technicians will draft field sheets that show the approximate location, trend and configuration of utilities detected if requested by client.
4. Field sheets will be provided to the project surveyors. Survey and computer drafting will be performed by others.
5. If a part of the scope statement and if the client provides InfraMap with plots of the utility file with referenced topography, InfraMap will provide a final office and/ or field review.

## Attachment B

### SUBSURFACE UTILITY LOCATING BY AIR/VACUUM TEST HOLE SERVICE

The intent of the proposed test hole service is to provide the actual horizontal and vertical location of existing utilities or structures at the point of interest by air/ vacuum excavation to facilitate the identification and resolution of potential design conflicts and aid in the protection of these facilities during construction.

Tasks:

1. Request records from utility owning agencies as appropriate.
2. Supply qualified personnel and provide them with the resources, transportation and field supplies to perform the requested services.
3. Coordinate with the client to determine what test holes are needed and their expected locations.
4. Coordinate with inspectors, property owners, "ONE CALL" and others as required. Comply with all laws and regulations concerning excavation. Obtain all permits needed to perform the test holes.
5. Determine in the field the actual location of the proposed improvements in possible conflict with existing utilities. This shall be accomplished by using the plan supplied by the client.
6. At the approximate point of possible conflict with the proposed improvement, excavate a test hole using air/ vacuum excavation. Provide all measurements necessary to perform the work safely and to cause no damage to the utility structure. The test hole will be of the minimum size required to expose the utility of interest and record the following information:
  - a. Depth below grade (cover).
  - b. Utility material, shape and overall condition.
  - c. Approximate diameter of pipes, cables, conduits and the configuration of multiple conduit systems.
  - d. The general directional trend of the utility.
  - e. Thickness, type and condition of paving material.
  - f. General soil conditions.
7. Install a permanent survey marker directly over the centerline of pipes or edge of concrete structures or conduit banks at grade. Indicate on the Test Hole Form the placement of the marker relative to the utility cross section.
8. Backfill test hole with excavated material in 6" lifts by air pneumatic tamping. Soil placed within 1 foot of the exposed utility will be clean and tamped carefully. Backfill materials will be adequately compacted to prevent later subsidence of the test hole. Provide select backfill materials, such as insulating sands and gravels, when needed. Restore test hole area to original condition. Ribbon of appropriate APWA/ULCC color will be installed in the backfill from utility to grade.
9. Repair and restore all pavement cuts to insure a long lasting, permanent repair using our standard cold patch method. Guarantee patch for 1 year and return to repair within that time if test hole sinks more than 1/2" below original grade (permanent marker). In the event that the permitting agency does not accept cold patch as permanent repair, the cost to restore the pavement to the satisfaction of the permitting agency will become a cost over and above the estimate.
10. Record the location of the permanent marker with a minimum of three (3) swing tie measurements to convenient existing permanent structures on site.
- 10a. (Optional - See Scope Statement) Survey test hole locations with a total station survey instrument and data collector relevant to the client provided project control. Process survey locations to provide northing, easting and grade/ utility elevations. Generate stations and offset for the test holes if baseline geometry is provided.
11. Cad Test Hole Forms. Also, provide a Test Hole Inventory report to list numerically the test holes completed/ attempted.
12. Technical limitations of small hole Air/Vacuum excavation:

In order to provide a cost effective service that causes minimal disturbance to site amenities and utilities, and is acceptable to permitting agencies, the size of the test hole excavation is kept to a minimum. A nominal size of 64 square inches (8" x 8") is the assumed size of the average test hole. Given this size excavation, the following limitations are stated for the benefit of the designer in choosing test hole locations.

- a. The bottom/invert of pipes and large diameter cables and conduits is not directly available in most test holes. The point of measurement of these utilities is typically the crown or shallowest point on the utility. Invert information is derived from crown cover plus diameter.
- b. The diameter of most pipes greater than 24" cannot be recovered directly from a single test hole. The diameter of pipes less than 24" is determined by exposing half or the entire pipe, as needed, and directly

measuring the outside diameter with a rule to the nearest 1/2". If pipe diameter is critical on larger than 24" pipes, it may be necessary to perform additional holes. This type of investigation falls outside of the normal scope of test hole services.

- c. Encased systems and non-encased conduit banks are typically exposed on one edge. This allows the test hole to be excavated down the side of the utility until a discernable bottom edge can be evaluated. Although it is usually possible to determine the bottom edge of these systems, it is not possible to determine conditions under these or other utility systems, such as concrete overpour and other utilities. It is important for the designer to remember that the bottom edge of an encased system or unencased conduit bank may not represent its lowest point, and that the shape of the system may not be the same on both sides. The width of these systems may not be determined from a single test hole. Encased systems and unencased conduit banks may require two test holes to document the width (and both sides top and bottom elevations).



March 8, 2021, Rev 1 3/9/21

**Keshavarz & Associates, Inc.**  
**711 North Dixie Highway, Suite 201**  
**West Palm Beach, Florida 33401**  
**Attn: Mr. Amir J. Keshavarz, P.E.**  
**email: [Amir@keshavarz.com](mailto:Amir@keshavarz.com)**

**RE: Proposal for Geotechnical Services**  
**Belle Glade Water Main Improvements**  
**SE Zone 6 Water System Replacement**  
**WUD 21-047**  
**TSF Proposal No.: 2103-158**

Dear Amir:

As requested, **TIERRA SOUTH FLORIDA, INC. (TSF)** is pleased to submit this proposal for the above-referenced project. This proposal includes an outline of our proposed scope of work, an estimate of the total fees, and our anticipated schedule for completion of the work.

**PROPOSED SCOPE OF WORK**

All work performed by TSF will be in general accordance with PBC and FDOT standards. We understand that utility installation and improvements is anticipated in the locations noted on the attached boring location plan graphic and summarized below.

- New WM on SE Ave G West of Tabit Rd (PBC NON-T-fare)
- R&R WM on SE Ave G East of Tabit Rd (PBC NON-T-fare)
- R&R WM on Tabit Rd north and south SE Ave G (PBC T-fare)
- New WM from SE 3rd St to SE 6th St north of SE Ave G R/W, either through private property Utility Easements, or within SFCD canal R/W (TBD)
- New WM from Rancho Rd west to utility easement north of SE Ave G R/W, either through private property Utility Easements, or within SFCD canal R/W (TBD)
- New WM from east dead-end of SE Ave F to SE 9th St through private property Utility Easement
- New and Replaced WM within the area bounded by Main Street, East Canal Street S., MLK Blvd. and SE Avenue G.

Field services are proposed at the locations noted on the attached Boring Location Plan and summarized in Table 1 below. Required coordination with Palm Beach County will be completed prior to roadway closures or Maintenance of Traffic (MOT) operations within the Right-Of-Way (ROW).

<b>Table 1 – Proposed Field Testing</b>	
<b>Location</b>	<b>Proposed Services</b>
Utility Areas	Standard Penetration Test (SPT) Borings - Twelve (12) SPT Borings to 6 feet - Twelve (12) SPT Boring to 10 feet
Roadways	Nine (9) asphalt cores
Note – the total number of borings within the roadway is not known. However, SPTs within the roadway will be performed at the location of the 9 asphalt cores. It is estimated that at least ½ of the remaining 24 borings will need to be performed in the roadway due to site access or utility issues.	

Boring locations will be approximately located and noted in the field by our personnel by measuring distances with a tape from known reference points. Elevations at boring locations can be interpreted from topographic plans if furnished by others. Prior to drilling at the project site, TSF will notify the local utility companies through the State’s 811 Utility Clearance Service and request that underground utilities be marked. This service will review utilities within the roadway ROW only. Any borings required outside of the ROW will not have utility review by the 811 Service, as the utility companies will not mark privately owned utilities. Our proposal assumes that private property utility lines will be located in the field by others prior to mobilization of the drill rig if borings outside of the ROW are required. TSF will recommend a utility line locating service upon request.

Upon completion of the field exploration, laboratory testing will be performed on selected samples. A geotechnical engineer will evaluate the results of all drilling and laboratory testing. A report will be issued that contains the exploration data, a discussion of the site and subsurface conditions, evaluation, and recommendations of soil parameters for utility installation, and a discussion of some construction considerations.

## ESTIMATED FEES

It is proposed that the fee for the performance of the services outlined above is determined on a unit price basis in accordance with the attached Fee Schedule. On the basis of the proposed quantities, it is estimated that the total fee will be as noted below. The total budget amount will be considered a Not To Exceed (NTE), without prior authorization from the Client.

<b>I. SOIL TESTING</b>	<b>\$800.00</b>
<b>II. CONCRETE &amp; MASONRY MATERIALS</b>	<b>\$0.00</b>
<b>III. AGGREGATE TESTING</b>	<b>\$720.00</b>
<b>IV. ASPHALT TESTING</b>	<b>\$1,170.00</b>
<b>V. INSPECTION SERVICES</b>	<b>\$0.00</b>
<b>VI. FIELD EXPLORATIONS / INVESTIGATIONS</b>	<b>\$6,042.00</b>
<b>VII MISCELLANEOUS SERVICE</b>	<b>\$2,400.00</b>
<b>VII ENGINEERING AND PROFESSIONAL SERVICES</b>	<b>\$7,280.00</b>
	<b>\$18,412.00</b>

Our estimate covers the work needed to present our findings in a formal report. Not included are reviews of foundation drawings, preparation of construction specifications, special conferences and any other work requested after submittal of our report.

Boring, sampling, and testing requirements are a function of the subsurface conditions encountered. Therefore, the estimated fee previously indicated is approximate, and compensation for the exploration will be based on the actual work and tests performed. We will endeavor to keep the exploration cost at a minimum consistent with good engineering practice.

## SCHEDULE AND AUTHORIZATION

TSF will proceed with the work after receipt of a signed copy of this proposal. With our present schedule, we can commence work within a few days of project approval (weather permitting and utility clearance). The fieldwork is expected to take about one to two days to complete. The written report can be submitted about two weeks after completion of the field exploration, depending on the extent of the laboratory-testing program. Verbal preliminary recommendations can be made to appropriate parties prior to submittal of the written report. The report will include soil profiles, asphalt core data in the form of photos and layer identification estimates, a summary of recommendations for construction, and formal plan sheets for the boring location plan sheet and soil profile sheets to be incorporated into the construction plan set.





# Boring Location Plan

2103-158.BG SE Zone 6 - CSA#2 under WUD 19-082 (Keshavarz and Assoc.)

## Legend

- Proposed Cores
- 📍 Proposed SPTs



## ATTACHMENT F

Palm Beach County Water Utilities Department

Utility Distribution & Collection System Engineering Services

Resolution No. R2020-1898 Contract Dated December 15, 2020

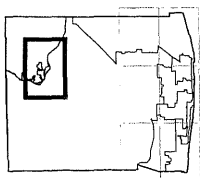
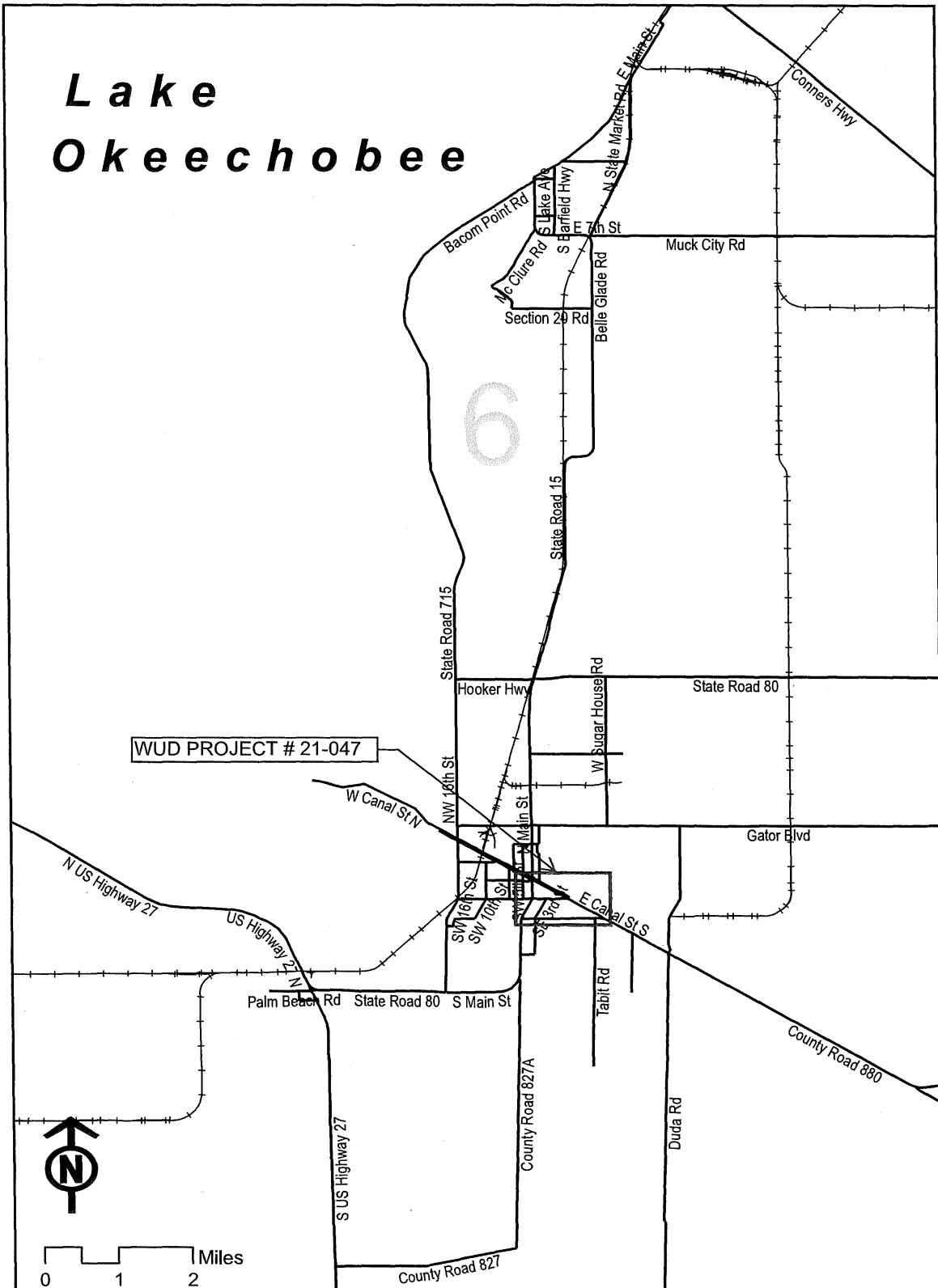
### SUMMARY OF SBE-M/WBE BUSINESS TRACKING

Master Contract Goals	SBE: 85%	M/WBE: 85%	MBE (Asian): 82%	MBE (Black): 3%
<b>Current Proposal</b>				
Value of Authorization No. <u>2</u>	\$614,111.43	\$614,111.43	\$614,111.43	\$0
Value of SBE-M/WBE Letters of Intent	\$537,402.00	\$537,402.00	\$537,402.00	\$0
Actual Percentage	<b>87.50%</b>	<b>87.50%</b>	<b>87.50%</b>	<b>0%</b>
<b>Signed/Approved Authorizations</b>				
Total Value of Authorizations	\$	\$	\$	\$
Total Value of SBE-M/WBE Signed	\$	\$	\$	\$
<b>Subcontractors</b>				
Actual Percentage	%	%	%	%
<b>Signed/Approved Authorizations Plus Current Proposal</b>				
Total Value of Authorization	\$614,111.43	\$614,111.43	\$614,111.43	\$
Total Value of Subcontractors & Letters of Intent	\$537,402.00	\$537,402.00	\$537,402.00	\$
Actual Percentage	<b>87.50%</b>	<b>87.50%</b>	<b>87.50%</b>	%

ATTACHMENT G

LOCATION MAP

WUD NO. 21-047



Revised 02/11/2021



KESH&AS-01

HAZELWOODM

# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
7/8/2020

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 have ADDITIONAL INSURED provisions or 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).

<b>PRODUCER</b> License # 0E67768 Insurance Office of America Abacoa Town Center 1200 University Blvd, Suite 200 Jupiter, FL 33458	<b>CONTACT NAME:</b> Stephanie Chase <b>PHONE (A/C, No, Ext):</b> (561) 721-3741 <b>FAX (A/C, No):</b> (561) 776-0670 <b>E-MAIL ADDRESS:</b> Stephanie.Chase@ioausa.com	
	<b>INSURER(S) AFFORDING COVERAGE</b> <b>NAIC #</b>	
<b>INSURED</b>  Keshavarz & Associates, Inc. 711 N. Dixie Hwy Suite 201 West Palm Beach, FL 33401	<b>INSURER A :</b> Travelers Indemnity Company <b>25658</b>	
	<b>INSURER B :</b> Travelers Property Casualty Insurance Company <b>36161</b>	
	<b>INSURER C :</b> Travelers Casualty & Surety Company <b>19038</b>	
	<b>INSURER D :</b> QBE Insurance Corporation <b>39217</b>	
	<b>INSURER E :</b> <b>INSURER F :</b>	

**COVERAGES**      **CERTIFICATE NUMBER:**      **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 INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> <b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:	X	X	660-6J917378-IND-20	7/1/2020	7/1/2021	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
A	<input checked="" type="checkbox"/> <b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY	X	X	BA-6J917538-20	7/1/2020	7/1/2021	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
B	<input checked="" type="checkbox"/> <b>UMBRELLA LIAB</b> <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			CUP-4688T918-20	7/1/2020	7/1/2021	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 1,000,000
C	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)    Y/N If yes, describe under DESCRIPTION OF OPERATIONS below    N/A		X	UB-7K077863-20	7/1/2020	7/1/2021	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	<b>Professional Liabili</b>			ANE41300-01	7/1/2020	7/1/2021	<b>Per Claim</b> 3,000,000
D	<b>Professional Liabili</b>			ANE41300-01	7/1/2020	7/1/2021	<b>Aggregate</b> 3,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
Contract for Consulting/Professional Services Utility Distribution and Collection System Engineering Services Project No. WUD  
Palm Beach County Board of County Commissioners, a political Subdivision of the State of Florida, its officers, employees and agents are Additional Insured with respect to General Liability when required by written contract per form CG D3 81 09 15 on a Primary Non-Contributory basis. Waiver of Subrogation with respect to General Liability per form CGD379 02/19. Palm Beach County Board of County Commissioners, a political Subdivision of the State of Florida, its Officers, Employees and Agents are Additional Insureds with respect to Auto Liability with waiver of subrogation when required by written contract per form CAF219 08/17. Waiver of Subrogation also applies to Workers Compensation where required by written contract per WC 00 03 13.

<b>CERTIFICATE HOLDER</b>  Palm Beach County Water Utilities Dept Director Utilities Engineering 8100 Forest Hill Blvd West Palm Beach, FL 33413	<b>CANCELLATION</b>  SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	<b>AUTHORIZED REPRESENTATIVE</b> 

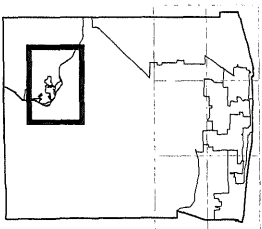
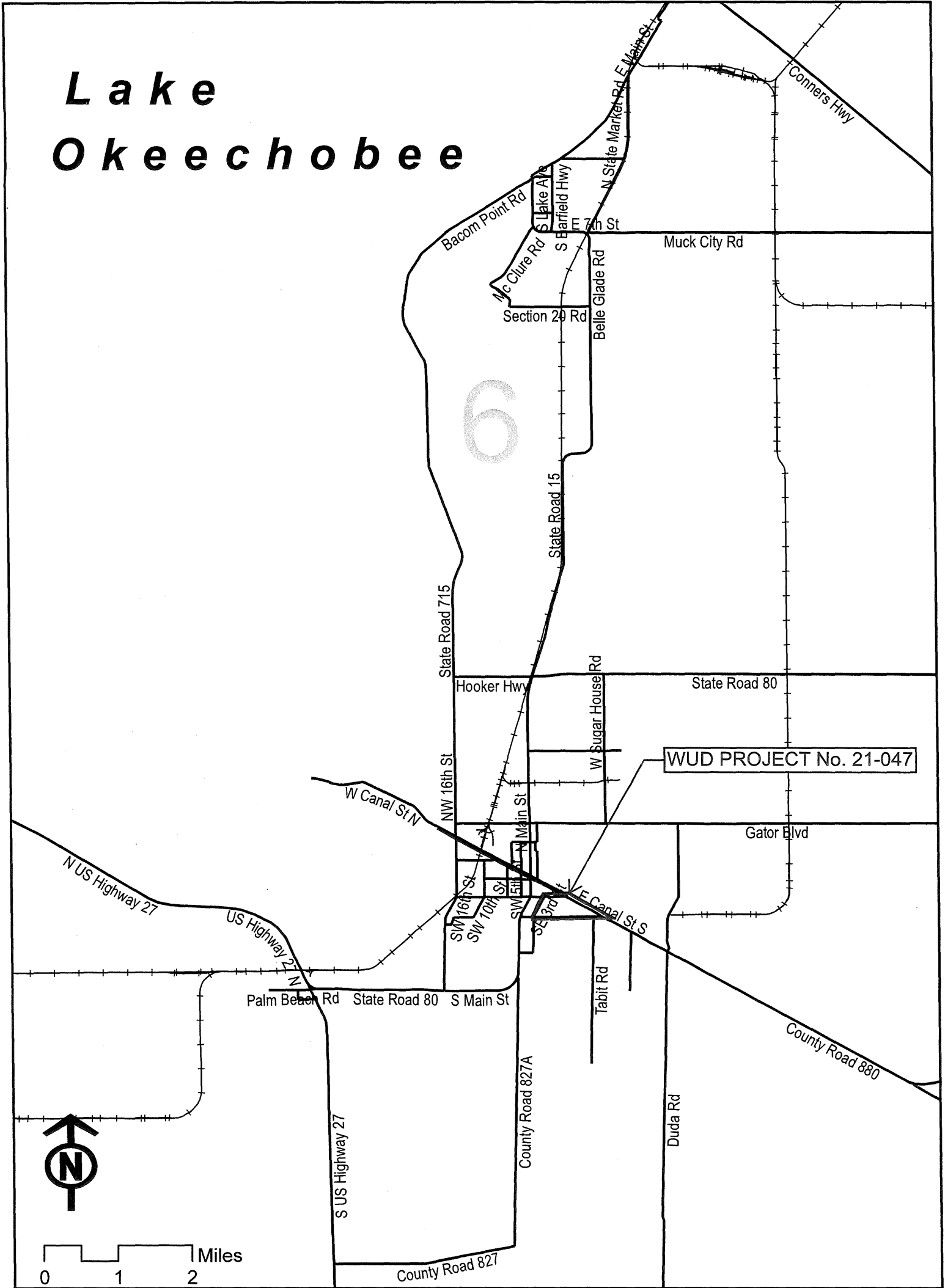
ACORD 25 (2016/03)

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ATTACHMENT 2  
LOCATION MAP  
AGENDA ITEM  
WUD PROJECT No. 21-047  
CONSULTANT SERVICE AUTHORIZATION No. 2  
KESSHAVARZ AND ASSOCIATES, INC.

# Lake Okeechobee



# ATTACHMENT 3



**KESH&AS-01**

**HAZELWOODM**

## CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

**7/8/2020**

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INSURER F :	

**COVERAGES      CERTIFICATE NUMBER:      REVISION NUMBER:**

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A	<input checked="" type="checkbox"/> <b>AUTOMOBILE LIABILITY</b> <input type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY	X	X	BA-6J917538-20	7/1/2020	7/1/2021	COMBINED SINGLE LIMIT (Ea accident) \$ <b>1,000,000</b> BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
B	<input checked="" type="checkbox"/> <b>UMBRELLA LIAB</b> <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ <b>10,000</b>			CUP-4688T918-20	7/1/2020	7/1/2021	EACH OCCURRENCE \$ <b>1,000,000</b> AGGREGATE \$ <b>1,000,000</b> \$
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D	<b>Professional Liabilii</b>			ANE41300-01	7/1/2020	7/1/2021	<b>Per Claim</b> \$ <b>3,000,000</b>
D	<b>Professional Liabilii</b>			ANE41300-01	7/1/2020	7/1/2021	<b>Aggregate</b> \$ <b>3,000,000</b>

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CERTIFICATE HOLDER	CANCELLATION
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