# City of Jacksonville, Florida

*Lenny Curry, Mayor*

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ONE CITY. ONE JACKSONVILLE.

March 20, 2018

03/23/18 14:14:28
Procurement Division

**TO:** Gregory W. Pease, Chairman
Professional Services Evaluation Committee

**THRU:** John P. Pappas, P.E.
Director

**FROM:** William J. Joyce, P.E.
Director of Operations

Tom Fallin, P. E.
Chief, Engineering and Construction Management Division

SUBJECT: P-59-17 Professional Design Services for LaSalle Street Outfall
PWEN462SW-06505-PW0708-01

The Engineering Division has negotiated with the consultant selected for Professional Design Services for LaSalle Street Outfall, resulting in the attached Scope of Services, Exhibit A and Contract Fee Schedule, Exhibit B to provide 30% design and estimating services. MBE firms to be utilized to meet the 20% Participation Percentage Plan for this contract are detailed on a separate attachment.

Accordingly, this is to recommend that the City of Jacksonville enter into a contract with Four Waters Engineering, Inc. for Professional Design Services for LaSalle Street Outfall, that includes the attached Scope of Services identified as Exhibit "A" and Fee Schedule identified as Exhibit "B", to provide a lump sum amount for Design Services in the amount of $374,291.91 and not to exceed limits for: Surveying Services in the amount of $113,949.96, Subsurface Utility Engineering Services for $47,764.43 and Variable Message Boards for $4,400.00, with a maximum indebtedness to the City in the amount of $540,406.30 and with an expiration date of Project Completion. All other terms and conditions are as provided in the RFP and the City's standard contract language.

TF/lw

Attachment: Exhibits A & B
MBE Participation

cc: Lori West, Contract Specialist

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Exhibit A

**SCOPE OF SERVICES**

**FOR ENGINEERING SERVICES FOR**

**PHASE 1 – 30% DESIGN & ESTIMATING**

**LASALLE STREET OUTFALL IMPROVEMENTS**

**CITY OF JACKSONVILLE, FLORIDA**

## I. GENERAL SCOPE OF PROJECT

A. The intent of the project is to furnish Phase 1- 30% Design & Estimating services for the LaSalle Street Outfall Improvements Project which consists of installation of a stormwater pump station located at the City owned lot between 936 and 952 LaSalle Street and an outfall to the St. Johns River in the right-of-way (ROW) of LaSalle Street. The primary purpose of the project is to alleviate flooding to the residents and businesses in the LaSalle Street drainage basin to the City's approved level of service.

B. Project limits are as described in the P-59-17 Professional Design Services for LaSalle Street Outfall Improvements Project RFP, approximately 100-acre drainage basin.

C. It is intended that Consultant's services will result in data collection, existing conditions analysis and stormwater model, proposed improvements model with alternatives and cost estimates, 30% drawings completed to a level of detail to provide a cost estimate, determination of water quality levels and treatment required by the St. Johns River Water Management District (SJRWMD), drainage calculations and reporting, and 30% design cost estimate.

D. Consultant's services on the project are anticipated to be in three (3) phases, Phase 1 – 30% Design & Estimating, Phase 2 – Final Design, and Phase 3 – Professional Services During Construction (PSDC), with separate negotiation and fee for each phase. At the City's option and upon completion of the 30% Design & Estimating phase, Consultant's services may be extended to Phase 2 for Final Design and/or development of the design-build bidding package after negotiation of mutually satisfactory terms.

E. Work during the Phase 1 – 30% Design & Estimating will concentrate, in order, on:

1. Drainage basin data collection of the existing conditions to prepare drainage analysis of the existing conditions and proposed improvements, including survey of existing drainage basin inlets, survey of the pump station site and discharge route, pump down and CCTV of the existing stormwater conveyance system main trunk line, geotechnical evaluation, and ASCE 38-02 Quality Level "A" and "B" subsurface utility locates.
2. Drainage analysis of the existing conditions and proposed preliminary design alternatives with Team recommendations to the City.
3. Identify permits that will be required to construct the project, coordinate with the associated agencies, and evaluate and assess the likelihood and/or difficulties of obtaining each permit.
4. Prepare 30% design and construction plans to a level of detail to approximate a Class 2 cost estimate per the Association for the Advancement of Cost Engineering International, Inc. (AACE) suitable for a Class 2 cost estimate per AACE (typical to 30% to 60% deliverable);

stormwater quantity and quality calculations; preliminary pump hydraulics and selection; and other issues related to the construction of this project.

5. Prepare presentation materials and assist the City in presenting the proposed work at a Public Information Meeting and respond to any concerns related to the project.

## II. PROJECT INITIATION & DATA COLLECTION

### A. Project Initiation

Upon notice to proceed, 4Waters will meet with the City for a project kickoff meeting. 4Waters will prepare a list of data request items for the City which are required by 4Waters to begin the data collection tasks. After the kickoff meeting, 4Waters will develop a project schedule in coordination with the team subconsultants which clearly identifies project milestones and deliverables. Schedule will be provided to the City and the 4Waters Team.

### B. Data Collection and Review:

The 4Waters Team will obtain and utilize all available information from the City for the area that encompasses the LaSalle Street drainage basin (approximately 100 acres), including but not limited to available survey, COJ GIS stormwater basins, stormwater structure layers (inlets, pipes, pipe sizes, outfalls, etc.), as-builts, LiDAR, aerial, landuse layers, soils data, CCTV videos, and other available pertinent data. After collecting all available data, including as-built data received from the City, the 4Waters Team will formulate a preliminary existing conditions map to determine necessary survey data required to supplement the available information and complete an existing conditions stormwater model and analysis. The 4Waters Team will complete the necessary existing conditions data collection by completing elevation data of existing stormwater structures in the drainage basin, a topographic survey of the pump station site and outfall route to St. Johns River, pump down and CCTV of the existing stormwater conveyance system main trunk line, and geotechnical evaluation. The 4Waters Team recommends inspecting the condition of the existing conveyance main trunk line due to the importance that this stormwater pipe may have on the design. The stormwater conveyance main trunk line inspection will aid in determining pipe defects, groundwater inflow, and necessary repairs required for planned design usage such as a conduit for the outfall discharge and/or as a stormwater storage facility.

## III. DRAINAGE ANALYSIS & PRELIMINARY DESIGN ALTERNATIVES

### A. Determine Existing Conditions:

All data collected will be organized, evaluated and documented to prepare the existing conditions analysis of the drainage basin, pump station site, existing conditions of the conveyance systems main trunk line, continuity of the drainage system connected to the main trunk line, and outfall route. The LaSalle Street drainage basin will be verified with the collected data and field site visits. Sub-basins will be determined along with necessary drainage calculations to evaluate the existing conditions. Based on other designs in this project vicinity and the project basin area, the existing conditions are assumed to require 50 to 100 sub-basins created to accurately represent the existing conditions of the LaSalle Street drainage basin. A stormwater existing conditions model will be developed in a modeling software platform acceptable to the SJRWMD to evaluate problematic and critical features of the conveyance system and identify areas of needed improvement. The stormwater model will be verified with available City storm event data and high-water marks gathered from survey. The stormwater model will be used to evaluate the mean annual/24 hr, 5

yr/24 hr and the design storm event prior to the St. Johns River bulkhead being overtopped and the results will be documented in the Drainage Analysis & Preliminary Design Alternatives Report. A thorough QA/QC will be conducted by Almond Engineering on the existing condition sub-basins, hydrology calculations, stormwater model, results, recommendations, and report.

B. Consult with Regulatory Agencies (COJ and SJRWMD):

The 4Waters Team will perform pre-application meetings, as appropriate, with the various regulatory agencies concerning the project design and associated regulatory requirements, to ensure preliminary regulatory approval and an understanding of necessary water quality requirements prior to proceeding with the preliminary design alternatives. The 4Waters Team will coordinate with the City regarding pre-application meetings and will provide meeting minutes from any pre-application meetings.

C. Proposed Conditions and Preliminary Design Alternatives:

Preliminary design alternatives will be based on the evaluation of the survey data, CCTV results, geotechnical analysis, and the existing conditions stormwater model results. The 4Waters Team will develop up to three (3) alternative preliminary designs which will evaluate the mean annual/24 hr, 5 yr/24hr, and the design storm event prior to the St. Johns River bulkhead being overtopped. If the identified design storm event prior to the St. Johns River bulkhead overtopping is determined unrealistic, another design storm event will be selected based on practical construction installation, project pump station site limitations, and cost considerations for water quantity and quality treatment design with the coordination and approval of the City. A proposed improvements stormwater model will be developed for each of the (3) alternative preliminary designs to evaluate the design parameters required to accommodate the associated peak flows of the storm events. Based on other designs in this project vicinity and the project basin area, the proposed conditions are assumed to have 75 to 125 sub-basins created to accurately represent the proposed improvements of the LaSalle Street drainage basin.

The proposed improvements may include the identified improvements to the stormwater conveyance system found from the existing conditions model, CCTV inspection identified repairs, the proposed pump station and outfall, and potentially an extension of the stormwater conveyance to improve connectivity and routing to the pump station and/or increase available storage. The alternatives may include pump size, wet well size, storage vault size, outfall discharge size, water quality treatment structures, and other critical design elements impacting project restrictions and increased costs. The Drainage Analysis & Preliminary Design Alternatives Report will include the following for each alternative design: explanation of recommended improvements, preliminary cost estimates, preliminary design figures, and model results. The report will also include a comparison summary matrix of the design alternatives identifying and weighting the pros and cons with a 4Waters Team recommendation to the City. The 4Waters Team will investigate and suggest electrical equipment elevations based on previous storm events and projected sea level rise based on available models and the pump station design lifespan. A thorough QA/QC will be conducted by Almond Engineering on the proposed improvements, sub-basins, hydrology calculations, stormwater model, results, recommendations, and report.

D. Consult with City Representatives:

At this point the 4Waters Team will have defined the general existing conditions and preliminary design alternatives and will consult with the City Representatives to review the status of the

findings and Team recommendations. The Drainage Analysis & Preliminary Design Alternatives Report will aid the City in determining which proposed drainage improvements and drainage design level of service accommodation for the 4Waters Team to proceed with the 30% design.

## III. 30% DESIGN & ESTIMATING

A. Preliminary Pump Station Layout

After the City has reviewed the Drainage Analysis & Preliminary Design Alternatives Report and approved a proposed design, the 4Waters Team will prepare up to two (2) preliminary pump station site layouts for the City to review. The layouts will include a general layout of the pump station facility which may include the wet well, trash rack, electrical equipment, generator, fuel tank, storage structure, treatment structures, and parking. The 4Waters Team includes an architect with will assist with the layout of the site and coordination with the City to determine acceptable options for façade of any above ground structures. The City approved layout will be used in completing the 30% pump station design and drawings.

B. 30% Design

Using the approved City pump station layout, the 4Waters Team will proceed with the 30% design including:

- Hydraulic evaluation and pump selection with ICPR updates.
- Pump station layout design.
- Forcemain outfall design.
- Stormwater pipe improvements from the CCTV inspections.
- Stormwater conveyance system improvements identified from existing conditions model.
- Stormwater conveyance system extension, if necessary.
- Survey and SUE performance within the limits of proposed stormwater conveyance system extension.
- Electrical design
- Structural design
- Water Quality treatment design

The 30% design will be developed to a level of detail necessary to approximate a Class 2 cost estimate per AACE. The 30% design will include 30% design drawings including cover sheet, index, key map, drainage maps (pre and post), project layout, general notes, pump station site layout, pump station plan and profile, forcemain route, existing stormwater main trunk improvements, conveyance improvements or extension, stormwater treatment, structural, electrical, standard COJ details, and known JEA utility conflicts. The design will reference the ASCE 24-14 Flood Resistant Design and Construction guidelines document.

Stormwater water quality treatment solutions will be necessary for suspended solids and debris reduction. Based on coordination with the SJRWMD during permit determination, additional water quality treatment measures may be necessary to reduce Nitrogen and/or Phosphorus in the stormwater discharge. A contingency (reimbursable) has been included to address treatment options for reduction of Nitrogen and/or Phosphorus and to provide a solution with the 30% design which will be acceptable to the SJRWMD, if necessary.

The 30% design submittal will include 30% drawings, 30% drainage report, Class 2 cost estimate per AACE, list of specifications, and a 30% design submittal technical memorandum. Items that

*may not* be included in the 30% design are construction details such as specific utility conflict details, outfall detail, MOT, horizontal control, architecture, landscape, forcemain and stormwater profiles, sediment and erosion control, paving plans, and utility adjustment plans. A thorough QA/QC will be conducted by Almond Engineering on the design documents to ensure consistency and accuracy of information across the multi-disciplinary plan set and drainage report.

C. Consult with City Representatives:

A meeting with the City and the 4Waters Team will be scheduled to conduct an overview of the 30% design, drawings, address City questions or concerns, and to determine the next phase of the project design desired by the City.

D. Public Meeting Presentation:

The 4Waters Team will support the City with two (2) Public Information Meetings, as necessary, with appropriate presentation materials. It is anticipated the first meeting will be conducted at the beginning of the project to explain the purpose of the project and explain the presence of surveyors and other 4Waters Team members. The second meeting will be conducted during the evaluation/design phase to explain the proposed design to the public and to receive feedback from residents and business owners to be included in the following design phase. Prior to each public meeting up to four variable message boards (VMBs) will be placed around the project area for up to seven days to inform the public about the meeting.

## IV. PERMITTING

A. The 4Waters Team will conduct a pre-application meeting with City of Jacksonville Development Department and SJRWMD. The SJRWMD meeting will discuss the water quality treatment required for the project design and necessary design and calculations required. The City of Jacksonville Development Department meeting will discuss the preliminary pump station layout, landscape improvements, architecture or fencing requirements, zoning requirements, and other potential improvements for the proposed project.

## V. PROJECT REQUIREMENTS

A. Design Requirements:

1. All drainage recommendations shall be based on the City of Jacksonville Standard Specifications and Details, the Land Development Procedures Manual, the Camp, Dresser and McKee, Inc. Master Stormwater Management Plan and the regulations and policies of applicable permitting agencies.

2. All water and sewer recommendations and improvements shall be in accordance with JEA Water and Sewer Standards Manual, latest edition, and the requirements of the Florida Department of Environmental Protection (FDEP).

3. Any roadway restoration designed as part of this project shall be based on the "Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways, State of Florida", Latest Edition; the current edition of the "City Standards" and the "Land Development Procedures Manual"; Florida Department of Transportation

Roadway and Traffic Standards; and the American Association of State Highway and Transportation Officials Policies and Guidelines. All roadway restoration designs and roadway impacts due to construction shall include maintenance of traffic (MOT) design for all phases of construction.

4. The 4Waters Team shall identify, based on the completed Phase 1 survey, areas of potential utility conflict with the proposed stormwater improvements. This may include existing utilities owned or operated by the Jacksonville Electric Authority (JEA), JEA Water & Sewer Business Unit, AT&T, Comcast, Teco/Peoples Gas System or other public and private utilities. The 4Waters Team will initiate coordination with the utility owners to identify conflicts with existing or potential future facilities and necessary adjustments or relocations to be addressed in Phase 2 of the project, as directed by the City.

5. The 4Waters Team shall prepare a drainage analysis of the existing conditions of the LaSalle Street drainage basin, determine proposed improvements with design alternatives located in the LaSalle Street drainage basin, and 30% design drawings, cost estimate, and a drainage report for the stormwater conveyance improvements, stormwater pump station, and stormwater outfall. The site location and design of these stormwater improvements are to be within the City ROWs and property, specifically LaSalle Street and the City lot on LaSalle Street near San Marco Boulevard designated as the stormwater pump station site. The site location and design of these stormwater improvements shall be in accordance with the City of Jacksonville standards.

6. 4Waters Team representatives shall attend and assist in two (2) Public Information Meetings, if requested by the Program Manager.

B. Project Specific Requirements:

**1. <u>Survey</u>**

a. <u>Extents of Survey</u> – Survey shall be provided by R.E. Holland & Associates as described below to support the drainage analysis and the design of the stormwater pump station, forcemain outfall, and any necessary improvements to the stormwater collection system. R.E. Holland's scope of work will be determined after a complete review of all available existing survey information from the City has been conducted during the Data Collection and Review task to determine the level of effort necessary to supplement and provide a comprehensive understanding of the existing conditions.

1) Pump Station and Forcemain Outfall Route: Survey will be provided of the proposed pump station site owned by the City and the adjacent empty lot, and for a proposed forcemain outfall route from the pump station site to the St. Johns River, 850 feet along LaSalle Street including 25 feet on each side of the intersections with River Road and Palm Avenue for a total of 900 feet.

2) Drainage Basin: Survey will be provided on 150 stormwater structures within the LaSalle Street project basin including grate/lid elevations, invert elevations, and pipe sizes; 25 spot elevations of centerline of road within basin, 25 finished floor elevations (FFE) of buildings selected by engineer, and 10 high water mark elevations.

3) Stormwater Conveyance Extension Route (Contingency): Survey will be provided, as necessary, for an extension or improvement of the stormwater conveyance system along LaSalle Street between Naldo Avenue, west to the intersection with San Marco Boulvedard, including 25 feet along each side of the intersections, for a total length of 1750 feet.

b. Baseline Control - The Consultant shall establish control lines relative to the existing right-of-way, with all ground control points referenced to State Plane Coordinates, NAD83/90 for future use.

c. Bench Levels - Vertical control for the project will originate from existing published governmental bench marks referenced to NAVD 1988.

d. Topography –

1) Pump Station and Forcemain Route: The 4Waters Team shall acquire topography within the pump station and forcemain route. Survey shall be for the full right-of-way including the foundation of the houses on both sides of the road, and 25 feet back at the intersections of LaSalle Street with River Road and Palm Avenue. Survey shall be provided for the proposed pump station site which is approximately 100' x 50' and the adjacent lot which is 100' x 50'. Water depth and topo will be provided 10 feet and 20 feet off the LaSalle Street bulkhead into the river and a portion of the remaining pilings. Topography will be provided on a 50-foot grid. Location of any visible above ground improvements including sanitary and drainage structures including inverts and sizes, overhead utility lines, poles, trees, curbing, sidewalks, and FFEs as noted.

2) Stormwater Conveyance Extension Route (Contingency): The 4Waters Team shall acquire topography within the stormwater conveyance extension route, as necessary. Survey shall be for the fullfull right-of-way including the foundation of the houses on both sides of the road, and 25 feet back at the intersections of LaSalle Street with Naldo Avenue, Flagler Avenue, Belmonte Avenue, Larue Avenue, and San Marco Boulevard. Topography will be provided on a 50-foot grid. Location of any visible above ground improvements including sanitary and drainage structures including inverts and sizes, overhead utility lines, poles, trees, curbing, sidewalks, and FFEs as noted.

e. Tree Survey – A tree survey will be provided along the pump station and forcemain outfall route and the stormwater conveyance extension route, as necessary. Tree identifications will be provided along with locations of any trees within the right-of-way for all trees 4" DBH and larger.

f. Underground Utilities – ASCE 38-02 Quality Level "B" utility locates will be provided to identify and designate all underground utilities within the extents of the pump station and forcemain route survey and the stormwater conveyance extension route, as necessary. The utilities will be marked on the surface by a representative of F.R. Aleman & Associates, Inc. utilizing both electromagnetic (EM) and ground penetrating radar (GPR), as necessary.

Existing as-built information will be incorporated and field-verified where possible. All pertinent vertical information on pipe, inverts, conduits, etc., will be obtained where possible. It is anticipated that additional verification of subsurface utilities (ASCE 38-02 Quality Level "A") will be required by excavation. Level "A", Soft-Dig services will be performed to accurately locate and determine the elevation of existing underground utilities that may be in conflict with the proposed improvements.

1) Pump Station and Forcemain Route: Two (2) days of Level "B" utility designating will be necessary. 20 Level "A" Soft Digs are anticipated to be necessary for the project and are included in the scope of work.
2) Stormwater Conveyance Extension Route (Contingency): Three (3) days of Level "B" utility designating will be necessary. 30 Level "A" Soft Digs are anticipated to be necessary for the project route and are included in the contingency scope of work.

g. Mapping - On site mapping will be produced on plan sheets at a scale of 1 inch = 20 feet, including side street information.

**2. Geotechnical** - The objective of the geotechnical exploration is to provide sufficient site and subsurface information to evaluate the subsurface conditions within the project limits.

a. Laboratory classification and index soil tests will be performed as necessary on selected soil samples obtained from the exploration. Specific tests to be performed are:
   (1) Organic Content
   (2) Moisture Content
   (3) Full Gradation
   (4) Atterberg Limits
   (5) Percent Fines
   (6) Environmental Corrosion Series

b. A geotechnical engineer, registered in the State of Florida, will direct the geotechnical exploration and provide engineering analysis and evaluation of the site and subsurface conditions with respect to the planned construction and imposed loading conditions. The results of the exploration and engineering study will be presented in a report containing the following:

   (1) A brief discussion of the planned construction and imposed loading conditions.
   (2) A graphical presentation of the existing on-site conditions, such as topography, surface vegetation, encountered and seasonal high water tables, etc. as they relate to the planned construction.
   (3) A presentation of the field and laboratory test procedures used and the data obtained. A presentation of the subsurface conditions, including subsurface profiles and estimated seasonal high water levels.
   (4) A geotechnical engineering evaluation of the site and subsurface conditions with respect to the planned construction.
   (5) Recommendations for the required site preparation and earthwork construction.

The following field services are anticipated to be necessary for the project:

Pump Station and Forcemain Outfall Route

- 2 Standard Penetration Test (SPT) Borings at 50 feet depth (at proposed pump station site);
- 2 Auger Borings at 10 feet depth along proposed forcemain outfall route;
- Maintenance of Traffic
- Utility Clearance Coordination

3. **Closed Caption Television (CCTV) Inspection**– The objective of the CCTV Inspection is to assess the condition of the major 30-inch and 42-inch storm sewer collection system along LaSalle Street between the Greenscape Celebration Park and Minerva Avenue, approximately 2900 feet. The following scope of services for CCTV Inspection will be provided by Blood Hound:

   a. CCTV Inspection and Pipeline Assessment -
      - CCTV inspection of 860 feet of 30-inch storm sewer piping and structures;
      - CCTV inspection of 2,050 feet of 42-inch storm sewer piping and structures;
      - CCTV inspection of 20 feet upstream of all connecting storm water pipes into the main storm sewer trunk lines;
      - Identification of defects and overall piping condition assessment in accordance with the National Association of Sewer Service Companies (NASSCO) Pipeline Assessment Certification Program (PACP);
      - Plugging and pump out of the storm water lines to be CCTV inspected will be provided by Blood Hound; the existing storm sewer system is understood to remain full of water even during low tide;
      - Maintenance of Traffic;
      - All necessary permitting;
      - Pipeline Assessment Report will be provided including:
        - Identification and location of all defects in the storm sewer system;
        - Assessment and PACP scoring of all identified defects;
        - All video camera recordings.

   b. Jetting and Cleaning (Contingency) – The condition of the existing 30-inch and 42-inch storm sewer is unknown, but due to the understanding that the storm sewer system is typically full of water, it is probable that there is substantial sediment and debris in the pipelines which would inhibit the ability to effectively CCTV inspect the pipeline. Accordingly, a contingency has been included for jetting and cleaning of the 30-inch and 42-inch storm sewer pipelines. The jetting and cleaning scope of services include the following:
      - Use of jetter truck for high pressure cleaning of storm sewer collection pipelines;
      - Disposal of collected debris and sediment including two (2) disposals per day over five (5) days.

C. Project Submittal Requirements:

1. Drainage Analysis & Preliminary Design Alternatives Report: Up to three (3) bound reports and an electronic PDF version of the report (on CD or thumb drive) to be furnished to addressees

stipulated by the Program Manager at the completion of this task. These reports shall be marked up by the agencies involved and returned for inclusion in follow-on design work. Each agency's mark-up shall be returned with the next design submittal, showing the 4Waters Team's response to each agency comment.

2. 30% Design: Up to three (3) sets of full-size (24" x 36") and an electronic PDF version (on CD or thumb drive) of the preliminary drawings shall be furnished to addressees stipulated by the Program Manager at the completion of this phase. These drawings shall be marked up by the agencies involved and returned for inclusion in follow-on design work. Each agency's mark-up shall be returned with the next design submittal, showing the 4Waters Team's response to each agency comment. Documents shall include the following items, as a minimum:

   a. Location map with beginning and ending project stations.

   b. Drainage map(s) showing existing elevations, contours, major structures with high water information, and drainage areas with direction of flow indicated.

   c. Plan sheets showing existing topography, reference points, baseline of surveys, begin/end stations, existing roadway and existing and proposed City-owned water, sewer, and stormwater facilities; other located existing utilities; also benchmark datum, existing ground line and anticipated subsoil and profile and location of water table.

   e. Drainage report based on 30% design.

   f. The geotechnical report giving the results of the exploratory borings and providing recommendations for earthwork, piping installation by various installation methods proposed, and pump station site recommendations.

   g. A list of all permits that will be necessary to construct the project.

   h. Preliminary Opinion of Probable Cost.

3. Utility Coordination: During this work, the 4Waters Team will be expected to furnish up-to-date drawings at the earliest possible time to assist utilities in locating their facilities for the purpose of resolving conflicts with the construction.

4. Design Reviews: The 4Waters Team, when submitting the Drainage Analysis & Preliminary Design Alternatives and 30% design submittal completion points, will allow up to four (4) weeks review time for each submittal and, if requested, will attend and prepare meeting minutes of a review conference at the end of the period to discuss the agency comments. In addition, if directed by the Program Manager, a complete review will be held at the project site. Any changes, refinements, or modifications developed in each review shall be incorporated into the design or otherwise disposed of before proceeding to follow-on design work. Each agency's markup shall be returned with the next follow-on submittal, showing the Consultant's response to the agency comments.

D. Permitting Requirements:

1. With the Drainage Analysis & Preliminary Design Alternatives stage submittal, the 4Waters Team shall provide the City with a list of all permits that will need to be acquired to construct the project.

2. The 4Waters Team shall take minutes/notes of all meetings with the permitting agencies. These notes shall be transcribed and furnished to the Program Manager.

3. The 4Waters Team shall keep a log of permit activities performed by 4Waters or our subconsultants for review by the City.

4. No formal permit submittals will be prepared during Phase 1, only permit coordination to determine feasible, permittable solutions for the project design. Phase 2 will include such services, but not be limited to, preparing first permit submittals, assisting with responses to requests for Additional Information, modification to Permit Application and documents, review and modification of design drawings to meet permit conditions.

   The following permits are anticipated to be required for this project based on the scope of work identified herein and in the Project RFP.

   a. SJRWMD Environmental Resource permit
   b. City of Jacksonville 10-Set Review
   c. FDEP – NPDES

E. Additional Requirements:

1. Provide dialogue with the Streets and Drainage Division, Traffic Engineering Division, Engineering Division, and JEA Water & Sewer Business Unit pertinent to all phases.

2. Provide dialogue with all affected utility companies as appropriate.

3. Plans shall be standard 24" x 36" CADD Bond sheets in black and white with 22" x 34" inside borders to facilitate half-size printing (if requested). Additionally, the Consultant shall submit all drawings in electronic form using a standard .dwg format. Specific layer format will be furnished to the Engineering Division. Additionally all drawing files will be converted to PDF. Electronic documents will be provided on CD or thumb drive.

4. The City shall be the Owner of the submitted documents.

5. The Consultant shall take notes of all design/review meetings held with City agencies. These notes shall be transcribed and furnished to the Program Manager for concurrence as soon as practical after the date of the meeting.

## VI. TIME SCHEDULE

A. Project kickoff meeting and City data request within 7 days of notice to proceed.

B. Project schedule 7 days from project kickoff meeting.

C. Formulate a preliminary existing conditions map to determine necessary survey data required 21 days from receiving COJ requested data.

D. Field data collection 45 days from date of City approving map of required data collection.

E. Drainage Analysis & Preliminary Design Alternatives Report 120 days from field data completion.

F. Pre-application permitting information to City 30 days from the field data completion.

G. 30% Design submittal 90 days from receipt of Drainage Analysis & Preliminary Design Alternatives Report comments and approval.

H. The total time allowed for drainage analysis, field data collections, and 30% design of this project shall be 10 months, not including City review time.

## VII. PROGRESS REPORTING

A. The Design Consultant will provide a schedule for all activities anticipated as part of this Project. Microsoft Project-based scheduling software will be used to build and maintain the design schedule. All significant milestones will be identified. The Design Consultant will submit an updated schedule on a monthly basis to the Program Manager. This schedule will accompany and support the Consultant's Invoice. In those instances where no invoice will be submitted, the updated schedule will still be required. In the event of unforeseen delays, the Consultant will attempt to minimize these delays and report on actions taken to maintain the original schedule. Any changes made to the schedule will be explained. Significant activities for the past month and projected activities for the next month will be highlighted. Any support requests or issues will be identified with recommendations from the Consultant.

## VIII. NOTICE TO PROCEED

A. No work on this project shall be performed until a contract has been executed and a Notice to Proceed is issued which specifically authorizes such work.

**CONTRACT FEE SUMMARY FORMAT FOR ENGINEERING DIVISION**
**CITY OF JACKSONVILLE, FLORIDA**

| PART I - GENERAL | |
|---|---|
| **1. Project**<br>LaSalle Street Outfall Improvements | **2. Proposal Number**<br>P-59-17 |
| **3. Name of Consultant**<br>Four Waters Engineering, Inc. | **4. Date of Proposal**<br>March 20, 2018 |

| PART II - LABOR RELATED COSTS | | | | |
|---|---|---|---|---|
| **5. Direct Labor** | Hourly Rate | Estimated Hours | Estimated Cost | TOTAL |
| Principal | $ 62.50 | 77 | $ 4,812.50 | |
| Project Manager | $ 52.88 | 256 | $ 13,537.28 | |
| Design Engineer | $ 51.44 | 560 | $ 28,806.40 | |
| Designer or Technician | $ 39.42 | 1144 | $ 45,096.48 | |
| Drafter | $ 25.63 | 440 | $ 11,277.20 | |
| Field Inspector | $ - | 0 | $ 0.00 | |
| Clerical | $ 24.38 | 64 | $ 1,560.32 | |
| **TOTAL DIRECT LABOR** | $41.36 | 2541 | | $ 105,090.18 |
| **6. Overhead (Combined Fringe Benefit & Administrative)** | | | | |
| Overhead Rate | 150 % x Total Direct Labor | | | $ 157,635.27 |
| **7. SUBTOTAL: Labor + Overhead (Items 5 & 6)** | | | | $ 262,725.45 |
| **8. PROFIT: Labor Related Costs (Item 7)** | x | 10% | | $ 26,272.55 |

| PART III - OTHER COSTS | | |
|---|---|---|
| **9. Miscellaneous Direct Costs** | | |
| Transportation & Shipping | $ 861.23 | |
| Original Reproducibles | $ 0.00 | |
| Reproduction | $ 1,021.00 | |
| MISCELLANEOUS DIRECT COSTS SUB-TOTAL | | $ 1,882.23 |
| **10. SUBCONTRACTS (Lump Sum)** | | |
| Almond Engineering (Water Quality, Permitting, QA/QC) | 47,688.57 | |
| W.D. Lassetter, P.E. (Electrical Engineer) | 12,400.10 | |
| Baker Klein Engineering (Structural Engineer) | 18,009.42 | |
| CSI Geo (Geotechnical Engineer) | 5,313.59 | |
| SUB-CONTRACT SUB-TOTAL | | $ 83,411.68 |
| TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10) | | $ 374,291.91 |
| **11. REIMBURSABLE COSTS (Limiting Amount)** | | |
| R.E. Holland & Associates, Inc. (Survey and SUE) | 59,560.31 | |
| R.E. Holland & Associates, Inc. (Contingency - Survey/SUE) | 54,389.65 | |
| Add'l survey Naldo Ave to San Marco Blvd on LaSalle St | | |
| Blood Hound (CCTV) | 21,621.50 | |
| Blood Hound (Contingency - Cleaning/Jetting) | 14,841.00 | |
| Almond Engineering (Contingency - Water Treatment) | 11,301.93 | |
| Variable Message Boards/Resident Notifications | 4,400.00 | |
| (Two Times 4 VMBs/7 days) | | |
| SUB-TOTAL REIMBURSABLES | | $ 166,114.39 |

| PART IV - SUMMARY | |
|---|---|
| TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables)<br>(Items 5, 6, 8, 9, 10 and 11) | **$ 540,406.30** |

**EBO FORM 1**
**SCHEDULE OF SUBCONTRACTOR/SUBCONSULTANT PARTICIPATION**

Name of Proposer: **Four Waters Engineering, Inc. (JSEB)**

Project Title: **Phase 1 LaSalle Street Outfall Improvements**

Proposal Number: **P-59-17** Total Base Proposal Amount (if applicable): **$540,406.30**

***Please list all JSEBs first**

| Full Company Name | JSEB Category (African-American, Women, Asian, Native American, Non-MBE or Hispanic) | Type of Work to be Performed | Total Contract Value or Percentage |
|---|---|---|---|
| Four Waters Engineering, Inc. | Women | Civil and Environmental Engineering | $540,406.30 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Attach additional list of subcontractors/sub-consultants as needed

| CONSULTANT/SUBCONTRACTOR/SUPPLIER TOTAL VALUES | |
|---|---|
| African-American Participation Total | $ |
| Hispanic-American Participation Total | $ |
| Native-American Participation Total | $ |
| Asian-American Participation Total | $ |
| Woman Participation Total | $540,406.30 |
| Non-MBE Participation Total | $ |

The undersigned will enter into a formal Agreement with the JSEB Suppliers/Consultants/Subcontractors identified herein for work listed in this schedule conditioned upon execution of a contract with the City of Jacksonville. Under penalties of perjury I declare that I have read the foregoing conditions and instructions and the facts are true to the best of my knowledge and beliefs.

Signature of Proposer: Angela Bryan Title: President Date: 3-20-2018

Print Name: Angela Bryan

# LASALLE STREET OUTFALL IMPROVEMENTS

## SUBCONSULTANT PROPOSAL

## ALMOND ENGINEERING

ALMOND
ENGINEERING
CONSULTING CIVIL ENGINEERS

January 28, 2018

Four Waters Engineering, Inc.
**Attn: Angela Bryan, P.E.**
324 6th Ave North
Jacksonville Beach, FL 32250

***Re:*** **San Marco (LaSalle Pump Station)**
**Proposal for Engineering Services**
**AE Job# 17-78**

Dear Ms. Bryan:

Almond Engineering, P.A. (Consultant) is pleased to submit a fee proposal to Four Waters Engineering, Inc. (Client), for engineering services on the above referenced project. It is our understanding that this project consists of the development of a master stormwater pumping station serving the general San Marco area. This project will require permitting through the St. Johns River Water Management District (SJRWMD) and the City of Jacksonville (COJ). Our proposed scope of work and fee schedule are as follows:

**PROJECT UNDERSTANDING:**

- Almond Engineering, P.A. teamed with and is a sub-consultant to Four Waters Engineering, Inc. (4WEng) for the LaSalle Street Stormwater Pumping Station. 4WEng is the prime engineering consultant in contract with the City of Jacksonville.

- Almond Engineering, P.A. shall be responsible for Water Quality portions of the stormwater design (up to 30% submittal to COJ and SJWRMD), completing water quality calculations for phosphorous and nitrogen, analyzing up to 3 different pollutant removal options for the City of Jacksonville, initiating engineering submittals to COJ & SJRWMD, and QA/QC services for the 30% submittal 4WEng will prepare for the City of Jacksonville.

6277 DUPONT STATION COURT E. UNIT 1 ▪ JACKSONVILLE, FLORIDA 32217
PHONE 904.306.0162 FAX 904.306.2185
ALMONDENGINEERING.COM

## I. PRELIMINARY ENGINEERING, DUE DILIGENCE AND PRELIMINARY SITE PLAN DEVELOPMENT:

**1.1** **St. Johns River Water Management District Pre-Application Meeting** – The Consultant will meet with the SJRWMD to discuss site specific drainage requirements and review potential stormwater system layouts with SJRWMD and discuss the permitting process specifically for this project. This information will be used to complete a conceptual site plan for the Client's review and approval prior to submission to SJRWMD.

**1.2** **City of Jacksonville Pre-Application Meeting** – The Consultant will meet with the COJ Development Department to discuss the preliminary layout and review proposed stormwater pumping station location, collection system modifications, land scape improvements, and any zoning requirements for the proposed project. This information will be conveyed to Four Waters Engineering for their use in completing a preliminary site plan for the COJ's review and approval prior to submission to the SJRWMD and COJ Development Services Dept.

**1.3** **Kick Off Meeting** – With the information gathered in tasks 1.1 through 1.2, we will provide the client with a COJ City Development Number, existing drainage, water and sewer ASBUILTS, development/permitting strategy and time line.

## II. DEVELOPMENT of WATER QUALITY DRAINAGE MODELS (Contingency):

**2.1** **Development of Water Quality Models** – The Consultant shall prepare pre and post pollutant loading calculations (Phosphorus and Nitrogen) per the St. Johns River Water Management District's guidelines. The Consultant shall also determine/identify up to three Best Management Practices that COJ could implement to aid in the post developed stormwater discharges that would mitigate the total tonnage of phosphorus and nitrogen into the St. Johns River. The Consultant will develop cost estimates for each BMP proposed to help COJ decide on the best course of action moving past the 30% submittal.

## III. PROJECT RESEARCH – BEST MANAGEMENT PRACTICES (Pollutant Removal)):

**3.1** **Pollutant & Sediment Control Devices** – The Consultant will gather and prepare and analyze three to four Best Management Practices (BMPs) to best suit the phosphorous and nitrogen removal goals of the project. The consultant will rate each BMP based upon Cost, Performance and Constructability for the project.

**3.2** **BMP Technical Memo** – The Consultant shall prepare a Technical Memo recommending the top three BMPs to serve the project based upon Performance, Cost and Constructability.

**3.3** **Architectural Design (30%)** - The Consultant shall engage a Registered Architect to develop proposed wall sections for masonry security wall.

## III. QUALITY ASSURANCE / QUALITY CONTROL (QA/QC) (30%)

Prior to submitting 30% design plans and reports to The City of Jacksonville, The Consultant shall review all design documents produced by the Four Waters Design Team including but not limited to: technical design considerations, technical reports, proposed design plans (including but not limited to Demolition Plans, Horizontal Control Plans, Stormwater Route And Collection Systems Improvement Plans, Paving Grading and Drainage Plans, Paving Grading and Drainage Details, Water Quality Plans and Details, Structural Plans and Details, etc. to ensure consistency and accuracy of information across the multi-disciplinary plan set and consistency and accuracy with the City of Jacksonville standard details and contact documents.

| | Scope of Basic Services (without contingency) | Lump Sum Fee | |
|---|---|---|---|
| | Total Almond Engineering Labor Cost | $17,262.42 | |
| | 150% Overhead | $25,893.63 | |
| | Overhead + Labor | $43,156.05 | |
| | 10% Profit | $4,315.61 | |
| | **TOTAL** | | **$47,471.66** |

| | Contingency for Water Treatment Issues | Lump Sum Fee | |
|---|---|---|---|
| | Total Almond Engineering Labor Cost | $4,109.79 | |
| | 150% Overhead | $6,164.69 | |
| | Overhead + Labor | $10,274.48 | |
| | 10% Profit | $1,027.45 | |
| | **TOTAL** | | **$11,301.93** |

## IV. ITEMS NOT INCLUDED:

- Soils Investigation
- Plan Reproduction for contractor's Use
- Material Testing
- Permit Fees
- Jurisdictional Wetlands Determination or Impact Permitting
- Structural Engineering
- Plan Review Fees
- FEMA Flood Plain Modeling
- Offsite Roadway Design
- Surveying
- Traffic Engineering
- Domestic Water Well Permitting
- Platting
- Traffic Signal Design
- Site Lighting Analysis and/or Design
- Internal Building Fire Sprinkler Suppression Analysis

## V. ITEMS PROVIDED TO THE CONSULTANT BY THE CLIENT:

- Permit Application Fees (if required)
- Boundary and Topographic Survey of proposed LS Site
- Subsurface Utility Engineering reports
- GIS Data for upstream contributory area
- Geotechnical Soil Boring Information (if needed)

Thank you for the opportunity to offer you a proposal for professional services. Please review the contract and, if it is acceptable, please return one signed copy of this proposal for our records. If you have any questions during your evaluation of this proposal, please do not hesitate to call us. I look forward to working for you.

Sincerely,
***ALMOND ENGINEERING***

Eric J. Almond, P.E.
Executive Vice President

Attachments: General Conditions and Rate Schedule

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ACCEPTED BY:

_____ _____
Signature Date

_____ _____
Typewritten or Printed Name Title

**CONTRACT FEE SUMMARY FORMAT FOR ENGINEERING DIVISION**
**CITY OF JACKSONVILLE, FLORIDA**

| PART I - GENERAL | |
|---|---|
| **1. Project**<br>LaSalle Street Outfall Improvements | **2. Proposal Number**<br>P-59-17 |
| **3. Name of Consultant**<br>Almond Engineering | **4. Date of Proposal**<br>2/16/2018 |

| PART II - LABOR RELATED COSTS | | | | |
|---|---|---|---|---|
| **5. Direct Labor** | Hourly Rate | Estimated Hours | Estimated Cost | TOTAL |
| Principal | $ 62.50 | 16.5 | $ 1,031.25 | |
| Project Manager/EOR | $ 52.88 | 63 | $ 3,331.44 | |
| Design Engineer | $ 41.82 | 294 | $ 12,295.08 | |
| Designer or Technician | $ 27.27 | 19 | $ 518.13 | |
| Drafter | $ 25.36 | 0 | $ 0.00 | |
| Field Inspector | $ 75.00 | 0 | $ 0.00 | |
| Clerical | $ 21.63 | 4 | $ 86.52 | |
| **TOTAL DIRECT LABOR** | $43.54 | 396.5 | | $ 17,262.42 |
| **6. Overhead (Combined Fringe Benefit & Administrative)** | | | | |
| Overhead Rate | 150 % x Total Direct Labor | | | $ 25,893.63 |
| **7. SUBTOTAL: Labor + Overhead (Items 5 & 6)** | | | | $ 43,156.05 |
| **8. PROFIT: Labor Related Costs (Item 7)** | x | 10% | | $ 4,315.61 |

| PART III - OTHER COSTS | | |
|---|---|---|
| **9. Miscellaneous Direct Costs** | | |
| Transportation & Shipping | $ 216.91 | |
| Original Reproducibles | $ 0.00 | |
| Reproduction | $ 0.00 | |
| Other | $ 0.00 | |
| MISCELLANEOUS DIRECT COSTS SUB-TOTAL | | $ 216.91 |
| **10. SUBCONTRACTS (Lump Sum)** | | |
| SUB-CONTRACT SUB-TOTAL | | $ - |
| TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10) | | $ 47,688.57 |
| **11. REIMBURSABLE COSTS (Limiting Amount)** | | |
| Water Treatment (Contingency for Nitrogen/Phosphorus)<br>102 Manhours at above rates | NTE 11,301.93 | |
| SUB-TOTAL REIMBURSABLES | | $ 11,301.93 |

| PART IV - SUMMARY | |
|---|---|
| TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables)<br>(Items 5, 6, 8, 9, 10 and 11) | **$ 58,990.50** |

# LASALLE STREET OUTFALL IMPROVEMENTS

## SUBCONSULTANT PROPOSAL

## W.D. LASSETTER, P.E.

**CONTRACT FEE SUMMARY FORMAT FOR ENGINEERING DIVISION**
**CITY OF JACKSONVILLE, FLORIDA**

| PART I - GENERAL | |
|---|---|
| **1. Project**<br>LaSalle Street Outfall Improvements | **2. Proposal Number**<br>P-59-17 |
| **3. Name of Consultant**<br>W.D. Lassetter, PE | **4. Date of Proposal**<br>3/2/2018 |

| PART II - LABOR RELATED COSTS | | | | |
|---|---|---|---|---|
| **5. Direct Labor** | Hourly Rate | Estimated Hours | Estimated Cost | TOTAL |
| Principal | $ 61.11 | 4 | $ 244.45 | |
| Project Manager | $ 52.60 | 16 | $ 841.60 | |
| Design Engineer | $ 51.20 | 66 | $ 3,379.20 | |
| Designer or Technician | $ - | 0 | $ 0.00 | |
| Drafter | $ - | 0 | $ 0.00 | |
| Field Inspector | $ - | 0 | $ 0.00 | |
| Clerical | $ - | 0 | $ 0.00 | |
| **TOTAL DIRECT LABOR** | $51.92 | 86 | | $ 4,465.25 |
| **6. Overhead (Combined Fringe Benefit & Administrative)** | | | | |
| Overhead Rate | 150 % x Total Direct Labor | | | $ 6,697.88 |
| **7. SUBTOTAL: Labor + Overhead (Items 5 & 6)** | | | | $ 11,163.13 |
| **8. PROFIT: Labor Related Costs (Item 7)** | x | | 10% | $ 1,116.31 |

| PART III - OTHER COSTS | | |
|---|---|---|
| **9. Miscellaneous Direct Costs** | | |
| Transportation & Shipping | $ 80.66 | |
| Original Reproducibles | $ 0.00 | |
| Reproduction | $ 40.00 | |
| Other | $ 0.00 | |
| MISCELLANEOUS DIRECT COSTS SUB-TOTAL | | $ 120.66 |
| **10. SUBCONTRACTS (Lump Sum)** | | |
| SUB-CONTRACT SUB-TOTAL | | $ - |
| TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10) | | $ 12,400.10 |
| **11. REIMBURSABLE COSTS (Limiting Amount)** | | |
| SUB-TOTAL REIMBURSABLES | | $ - |

| PART IV - SUMMARY | |
|---|---|
| TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11) | **$ 12,400.10** |

# LASALLE STREET OUTFALL IMPROVEMENTS

## SUBCONSULTANT PROPOSAL

## BAKER KLEIN ENGINEERING

# LaSALLE ST OUTFALLS IMPROVEMENT
# ENGINEERING FEES

## PART I - GENERAL

| 1. Project | 2. Project Number |
|---|---|
| LaSALLE ST OUTFALLS IMPROVEMENT | 18-023 |
| **3. Name of Consultant** | **4. Date of Proposal** |
| Baker Klein Engineering | 2/27/2018 |

## PART II - LABOR RELATED COSTS

| 5. Direct Labor | Hourly Rate | Estimated Hours | Estimated Cost | TOTAL |
|---|---|---|---|---|
| Principal | $75.00 | 4 | $300.00 | |
| Project Manager | $60.00 | 18 | $1,080.00 | |
| Designer | $38.00 | 40 | $1,520.00 | |
| Sr. Struct Engineer | $60.00 | 70 | $4,200.00 | |
| Professional Engineer | $40.00 | 0 | $0.00 | |
| Clerical / Admin | $35.00 | 1 | $35.00 | |
| **TOTAL DIRECT LABOR** | | **133** | | $7,135.00 |
| **6. Overhead (Combined Fringe Benefit & Administrative)** | | | | |
| Overhead Rate | 129 % x Total Direct Labor | | | $ 9,204.15 |
| **7. SUBTOTAL: Labor + Overhead (Items 5 & 6)** | | | | $16,339.15 |
| **8. PROFIT: Labor Related Costs (Item 7)** | | x | 10% | $ 1,633.92 |
| **9. SUBCONSULTANT COORDINATION : (Items 11)** | | | 5% | $ - |

## PART III - OTHER COSTS

| | | | |
|---|---|---|---|
| **10. Miscellaneous Direct Costs** | | | |
| Original Media | $ | 0.00 | |
| Reproduction | $ | 20.00 | $20.00 |
| Transportation | $ | 16.35 | $ 16.35 |
| Shipping | $ | 0.00 | |
| Miscellaneous Direct Costs | $ | 0.00 | |
| MISCELLANEOUS DIRECT COSTS SUB-TOTAL | | | $ 36.35 |
| **11. SUBCONTRACTS (Lump Sum)** | | | |
| | $ | 0.00 | |
| | $ | 0.00 | |
| | $ | 0.00 | |
| | $ | 0.00 | |
| SUB-CONTRACT SUB-TOTAL | | | $ - |
| TOTAL LUMP SUM AMOUNT (Items 7, 8, 9, 10, and 11) | | | $ 18,009.42 |
| **12. Reimbursable Costs - Limiting Amount** | | | |
| | $ | 0.00 | |
| | $ | | |
| | $ | | |
| SUB-TOTAL REIMBURSABLES | | | $ - |

## PART IV - SUMMARY

| | |
|---|---|
| TOTAL AMOUNT OF CONTRACT (Items 7, 8, 9, 10, 11 and 12) | **$ 18,009.42** |

# LASALLE STREET OUTFALL IMPROVEMENTS

## SUBCONSULTANT PROPOSAL

## CSI GEO

CSI Geo
Geotechnical · CMT · CEI

January 26, 2018

**Mr. Michael Klink, P.E.**
Four Waters Engineering, Inc.
324 6th Avenue North
Jacksonville Beach, FL 32250

Subject: Geotechnical Work Plan and Cost Estimate
COJ LaSalle St Outfall Project
Jacksonville, Florida

Dear Mr. Klink:

CSI Geo, Inc. is pleased to present this geotechnical work plan and cost estimate for the subject project.

## SCOPE OF PROPOSED SERVICES

Our services will include the following:

- Field Exploration at locations as close as possible to the proposed stormwater vault and pump station, and a forcemain.
- Geotechnical evaluation and recommendations.

The geotechnical exploration will consist of field exploratory borings, laboratory testing and a geotechnical analysis of the collected data. A narrative outline of the geotechnical services along with a detailed work scope is presented in the following section.

## PROPOSED GEOTECHNICAL EXPLORATION

**Field Exploration** - The proposed exploration for this project will involve geotechnical studies and the collection of subsurface data as follows:

- Two (2) SPT borings will be placed in the area of the proposed stormwater vault and pump station and drilled to a depth of 50 feet below the existing ground surface.
- Two (2) Auger borings will be placed along the alignment of the proposed forcemain and drilled to a depth of 10 feet below the existing ground surface.

Soil samples will be classified, containerized, and marked in the field and returned to the laboratory for visual inspection and classification by the geotechnical engineer using the Unified Soil Classification System.

**Laboratory Testing** - Laboratory classification and soil tests will be performed as necessary on selected soil samples obtained from the exploration. Specific tests to be performed are Organic

Content, Moisture Content, Full Gradation, Atterberg Limits, Percent Fines, and Environmental Corrosion Series.

**Submittals**

A geotechnical engineer, registered in the State of Florida, will direct the geotechnical exploration and provide engineering analysis and evaluation of the site and subsurface conditions with respect to the planned construction and imposed loading conditions. The submittals will be presented as follows:

***Geotechnical Exploration and Evaluation Report***

A geotechnical report for the pump station and forcemain consisting of the following will be prepared and submitted:

- A brief discussion of the planned construction.
- A graphical representation of the subsurface conditions encountered as well as the existing on-site conditions, such as topography, surface vegetation, encountered and seasonal high water tables, etc., as they relate to the planned construction.
- A report of tests sheet that summarizes the laboratory test results.
- An appendix that contains stratified soil boring profiles, laboratory test data sheets, and results of laboratory groundwater analysis.
- Written discussion of the subsurface conditions encountered.
- Evaluation of the subsurface soils and recommendations concerning the proposed construction.

**ESTIMATED FEE**

Since the site and subsurface conditions are not precisely known, it is not possible to accurately determine all types of analyses and related studies that may be necessary. In addition, boring, sampling and testing requirements are a function of the subsurface conditions actually encountered. Compensation for the exploration outlined above, or any additional services you request, will be based upon the actual time spent and tests performed in accordance with the attached Estimated Fee Proposal. We will not exceed our fee estimate without an extension of the scope of services by your office.

We look forward to serving as your geotechnical consultant on this project. If you have any questions or desire additional information, please do not hesitate to call.

Sincerely,

**CSI GEO, INC.**

John A. Iya, P.E.
Senior Geotechnical Engineer

Attachment

CSI Geo
Geotechnical · CMT · CEI

**GEOTECHNICAL COST ESTIMATE**
**Geotechnical Exploration**
**COJ LaSalle St Outfall**
**Jacksonville, Florida**

2394 St. Johns Bluff Road, S #200
Jacksonville, Florida 32246
tel (904) 641-1993
fax (904) 645-0057

Date: January 25, 2018

| Item Description | Unit | Number of Units | | Cost / Unit | | Estimated Cost |
|---|---|---|---|---|---|---|
| **Field Investigation** | | | | | | |
| Truck Rig Mobilization | ea. | 1 | ea. | $450.00 | /ea. | $450.00 |
| 2 SPT Borings at 50' each | ft. | 100 | ft. | $13.00 | /ft. | $1,300.00 |
| 2 Auger Borings to 10' each | ft. | 20 | ft. | $8.75 | /ft. | $175.00 |
| Utility Clearance Coordination | hr. | 2 | hr. | $112.48 | /hr. | $224.96 |
| Boring Layout/Coordination | hr. | 2 | hr. | $112.48 | /hr. | $224.96 |
| **Subtotal:** | | | | | | **$2,374.92** |
| **Laboratory Testing** | | | | | | |
| Moisture Content | ea. | 6 | ea. | $20.00 | /ea. | $120.00 |
| Organic Content | ea. | 6 | ea. | $37.00 | /ea. | $222.00 |
| Percent Fines | ea. | 6 | ea. | $35.00 | /ea. | $210.00 |
| Full Gradation | ea. | 3 | ea. | $65.00 | /ea. | $195.00 |
| Atterberg Limit | ea. | 3 | ea. | $94.00 | /ea. | $282.00 |
| Corrosion Series Test | ea. | 2 | ea. | $200.00 | /ea. | $400.00 |
| **Subtotal:** | | | | | | **$1,429.00** |
| **Engineering/Support Services** | | | | | | |
| Project Manager | hr. | 1 | hr. | $184.88 | /hr. | $184.88 |
| Project Engineer | hr. | 6 | hr. | $112.48 | /hr. | $674.88 |
| Staff Engineer | hr. | 4 | hr. | $104.50 | /hr. | $418.00 |
| CADD | hr. | 2 | hr. | $92.58 | /hr. | $185.16 |
| Clerical | hr. | 1 | hr. | $46.75 | /hr. | $46.75 |
| **Subtotal:** | | | | | | **$1,509.67** |
| **TOTAL (Estimated):** | | | | | | **$5,313.59** |

# CONTRACT FEE SUMMARY FORMAT FOR ENGINEERING DIVISION
# CITY OF JACKSONVILLE, FLORIDA

| PART I - GENERAL | |
|---|---|
| **1. Project**<br>COJ LaSalle St Outfall | **2. Proposal Number** |
| **3. Name of Consultant**<br>CSI Geo, Inc. | **4. Date of Proposal**<br>1/28/2018 |

| PART II - LABOR RELATED COSTS | | | | |
|---|---|---|---|---|
| **5. Direct Labor** | Hourly Rate | Estimated Hours | Estimated Cost | TOTAL |
| Project Manager | $ 67.23 | 1 | $ 67.23 | 67.23 |
| Senior Engineer | $ 54.07 | 0 | $ 0.00 | 0.00 |
| Project Engineer | $ 40.90 | 6 | $ 245.40 | 245.40 |
| Staff Engineer | $ 38.00 | 4 | $ 152.00 | 152.00 |
| Field Technician | $ 25.50 | 0 | $ 0.00 | 0.00 |
| Draftsman/CADD | $ 33.67 | 2 | $ 67.34 | 67.34 |
| Clerical | $ 17.00 | 1 | $ 17.00 | 17.00 |
| **TOTAL DIRECT LABOR** | $39.21 | 14 | | $ 548.97 |
| **6. Overhead (Combined Fringe Benefit & Administrative)** | | | | |
| Overhead Rate | 150 % x Total Direct Labor | | | $ 823.46 |
| **7. SUBTOTAL: Labor + Overhead (Items 5 & 6)** | | | | $ 1,372.43 |
| **8. PROFIT: Labor Related Costs (Item 7** | x | 10% | | $ 137.24 |

| PART III - OTHER COSTS | | |
|---|---|---|
| **9. Miscellaneous Direct Costs** | | |
| Transportation & Shipping | $ 0.00 | |
| Original Reproducibles | $ 0.00 | |
| Reproduction | $ 0.00 | |
| Other | $ 0.00 | |
| MISCELLANEOUS DIRECT COSTS SUB-TOTAL | | $ - |
| **10. SUBCONTRACTS (Lump Sum)** | | |
| Environmental Wetlands | $ 0.00 | |
| Utility Coordination & QC | $ 0.00 | |
| Tree Mitigation | $ 0.00 | |
| SUB-CONTRACT SUB-TOTAL | | $ - |
| TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10) | | $ 1,509.67 |
| **11. REIMBURSABLE COSTS (Limiting Amount)** | | |
| Survey | $ 0.00 | |
| Geotechnical Investigations | $ 3,803.92 | |
| Variable Message Sign | $ 0.00 | |
| Plan prints for Public Meetings | $ 0.00 | |
| SUB-TOTAL REIMBURSABLES | | $ 3,803.92 |

| PART IV - SUMMARY | |
|---|---|
| TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11) | **$ 5,313.59** |

# LASALLE STREET OUTFALL IMPROVEMENTS

## SUBCONSULTANT PROPOSAL

## R.E. HOLLAND & ASSOCIATES, INC.

# CONTRACT FEE SUMMARY FORMAT FOR ENGINEERING DIVISION
# CITY OF JACKSONVILLE, FLORIDA

## PART I - GENERAL

| | |
|---|---|
| **1. Project**<br>LaSalle Street Stormwater Pump Station Task 1A | **2. Contract Number**<br>P-59-17 |
| **3. Name of Consultant**<br>R.E. Holland & Associates, Inc. | **4. Date of Proposal**<br>3/6/2018 |

## PART II - LABOR RELATED COSTS

| **5. Direct Labor** | Hourly Rate | Estimated Hours | Estimated Cost | TOTAL |
|---|---|---|---|---|
| Principal | $ - | 0 | $ 0.00 | |
| Project Manager | $ 45.00 | 20 | $ 900.00 | |
| Design Engineer or Architect | $ - | 0 | $ 0.00 | |
| Designer or Technician | $ - | 0 | $ 0.00 | |
| Drafter | $ 30.00 | 76 | $ 2,280.00 | |
| Survey Crew | $ 58.80 | 96 | $ 5,644.54 | |
| Clerical | $ 25.00 | 6 | $ 150.00 | |
| **TOTAL DIRECT LABOR** | $45.33 | 198 | | $ 8,974.54 |
| **6. Overhead (Combined Fringe Benefit & Administrative)** | | | | |
| Overhead Rate | 150 % x Total Direct Labor | | | $ 13,461.82 |
| **7. SUBTOTAL: Labor + Overhead (Items 5 & 6)** | | | | $ 22,436.36 |
| **8. PROFIT: Labor Related Costs (Item 7** | x | 10% | | $ 2,243.64 |

## PART III - OTHER COSTS

| | | |
|---|---|---|
| **9. Miscellaneous Direct Costs** | | |
| Transportation & Shipping | $ 0.00 | |
| Original Reproducibles | $ 0.00 | |
| Reproduction | $ 0.00 | |
| Other | $ 0.00 | |
| MISCELLANEOUS DIRECT COSTS SUB-TOTAL | | $ - |
| **10. SUBCONTRACTS (Lump Sum)** | | |
| FR Aleman SUE Designations (2 days designating and 20 test ho | $ 10,240.00 | |
| | $ 0.00 | |
| | $ 0.00 | |
| | $ 0.00 | |
| | $ 0.00 | |
| SUB-CONTRACT SUB-TOTAL | | $ 10,240.00 |
| TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10) | | $ 34,920.00 |
| **11. REIMBURSABLE COSTS (Limiting Amount)** | | |
| Addenda Support - SUE Administration | $ 0.00 | |
| Construction Support Services | $ 0.00 | |
| SUB-TOTAL REIMBURSABLES | | $ - |

## PART IV - SUMMARY

| | |
|---|---|
| TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables)<br>(Items 5, 6, 8, 9, 10 and 11) | **$ 34,920.00** |

# SUE FOR TASK 1A

| | | | | | |
|---|---|---|---|---|---|
| **Contract Fee Summary for** | | | | | |
| **LaSalle St (SJ River to San Marco Blvd)** | | | | | |
| **PART I - GENERAL** | | | | | |
| **1. Project** - LaSalle St | | | **2.** | **Project Number** | |
| (SJ River to San Marco Blvd) | | | | | |
| **3. Name of Consultant** | | | **4.** | **Date of Proposal** | |
| F.R. Aleman and Associates, Inc. | | | | 2/26/2018 | |
| **PART II - LABOR RELATED COSTS** | | | | | |
| **5. DIRECT LABOR** | Hourly Rate | Estimated Hours | Estimated Cost | | TOTAL |
| Principal | | | $ | 0.00 | |
| Project Manager (Responsible Prof.) | $ 46.00 | 4 | $ | 184.00 | |
| Senior Project Engineer | | | $ | 0.00 | |
| Project Engineer | | | $ | 0.00 | |
| Engineer Intern | | | $ | 0.00 | |
| Senior Designer | | | $ | 0.00 | |
| Sr. Utility Coordinator | $ 56.50 | | $ | 0.00 | |
| Sr. Utility Technician | $ 28.00 | | $ | 0.00 | |
| Utility Technician | $ 25.00 | | $ | 0.00 | |
| Designer/GIS Survey-SUE Analyst | $ 35.50 | | $ | 0.00 | |
| CADD Technician | $ 32.62 | | $ | 0.00 | |
| Clerical | $ 20.00 | | $ | 0.00 | |
| | | | | **TOTAL DIRECT LABOR** | **$ 184.00** |
| **6. OVERHEAD (Combined Fringe Benefits & Administrative)** | | | | | |
| Overhead Rate | 176.79% | | | | $ 325.29 |
| **7. SUBTOTAL: Labor + Overhead (Items 5 & 6)** | | | | | **$ 509.29** |
| **8. PROFIT: Labor Related Costs (Item 7)** | | | x | 10% | $ 50.93 |
| | | | | **SUB-TOTAL SALARY RELATED COSTS** | **$ 560.22** |
| **PART III - OTHER SERVICES p/Units** | | | | | |
| **9. MISCELLANEOUS DIRECT COSTS** | | Estimated Units | | Unit Price | |
| SUE Services - Designating | (Day) | 2 | | $ 1,840.00 | $ 3,680.00 |
| SUE Services - Locating | (Day) | | | $ 1,880.00 | |
| Test Holes (Soft Surface) Min. 5 for mobilization | (Unit) | 20 | | $ 300.00 | $ 6,000.00 |
| Test Holes (Hard Surface) Min. 5 for mobilization | (Unit) | | | $ 360.00 | $ - |
| Standard MOT Services | (Day) | | | $ 500.00 | $ - |
| Advanced MOT Services | (Day) | | | $ 1,200.00 | $ - |
| | | | | **MISCELLANEOUS DIRECT COSTS SUB-TOTAL** | **$ 9,680.00** |
| **10. SUBCONTRACTS (Lump Sum)** | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | **SUB-CONTRACT SUB-TOTAL** | **$ -** |
| **PART IV - SUMMARY** | | | | | |
| **TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)** | | | | | **$ 10,240.22** |

**Florida Department of Transportation**

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

MIKE DEW
SECRETARY

July 13, 2017

Yvette Aleman, President
F.R. ALEMAN & ASSOCIATES, INC.
10305 NW 41st Street, Suite 200
Doral, Florida 33178

Dear Ms. Aleman:

The Florida Department of Transportation has reviewed your application for qualification package and determined that the data submitted is adequate to technically qualify your firm for the following types of work:

Group 3 - Highway Design - Roadway

- 3.1 - Minor Highway Design
- 3.2 - Major Highway Design
- 3.3 - Controlled Access Highway Design

Group 6 - Traffic Engineering and Operations Studies

- 6.1 - Traffic Engineering Studies
- 6.2 - Traffic Signal Timing
- 6.3.1 - Intelligent Transportation Systems Analysis and Design
- 6.3.2 - Intelligent Transportation Systems Implementation
- 6.3.3 - Intelligent Transportation Traffic Engineering Systems Communications
- 6.3.4 - Intelligent Transportation Systems Software Development

Group 7 - Traffic Operations Design

- 7.1 - Signing, Pavement Marking and Channelization
- 7.2 - Lighting
- 7.3 - Signalization

Group 8 - Survey and Mapping

- 8.1 - Control Surveying
- 8.2 - Design, Right of Way & Construction Surveying
- 8.4 - Right of Way Mapping

Group 10 - Construction Engineering Inspection

- 10.1 - Roadway Construction Engineering Inspection
- 10.3 - Construction Materials Inspection

Group 13 - Planning

13.3 - Policy Planning
13.5 - Subarea/Corridor Planning
13.6 - Land Planning/Engineering
13.7 - Transportation Statistics

Your overhead audit has been accepted, enabling your firm to compete for Professional Services projects advertised at the unlimited level, with estimated fees of any dollar amount. This status shall be valid until June 30, 2018 for contracting purposes.

| | Home/Branch Office | Field Office | Facilities Capital Cost of Money | Overtime Premium | Direct Expense | |
|---|---|---|---|---|---|---|
| Indirect Cost | 162.82% | 117.17% | 0.387% | Reimbursed | 13.97% (Home)<br>17.05% (Field)* | = 176.97 |

*Rent and utilities excluded from field office rate. These costs will be directly reimbursed on contracts that require the consultant to provide field office.

Should you have any questions, please feel free to contact me by email at carliayn.kell@dot.state.fl.us or by phone at 850-414-4597.

Sincerely,

Carliayn Kell

Carliayn Kell
Professional Services
Qualification Administrator

# CONTRACT FEE SUMMARY FORMAT FOR ENGINEERING DIVISION
# CITY OF JACKSONVILLE, FLORIDA

| PART I - GENERAL | | | | |
|---|---|---|---|---|
| **1. Project** Task 1B<br>LaSalle Street Stormwater Pump Station CONTINGENCY | | | **2. Contract Number**<br>P-59-17 | |
| **3. Name of Consultant**<br>R.E. Holland & Associates, Inc. | | | **4. Date of Proposal**<br>3/6/2018 | |
| **PART II - LABOR RELATED COSTS** | | | | |
| **5. Direct Labor** | Hourly Rate | Estimated Hours | Estimated Cost | TOTAL |
| Principal | $ - | 0 | $ 0.00 | |
| Project Manager | $ 45.00 | 24.5 | $ 1,102.50 | |
| Design Engineer or Architect | $ - | 0 | $ 0.00 | |
| Designer or Technician | $ - | 0 | $ 0.00 | |
| Drafter | $ 30.00 | 120 | $ 3,600.00 | |
| Survey Crew | $ 58.80 | 158 | $ 9,289.98 | |
| Clerical | $ 25.00 | 8 | $ 200.00 | |
| **TOTAL DIRECT LABOR** | $45.71 | 310.5 | | $ 14,192.48 |
| **6. Overhead (Combined Fringe Benefit & Administrative)**<br>Overhead Rate 150 % x Total Direct Labor | | | | $ 21,288.72 |
| **7. SUBTOTAL: Labor + Overhead (Items 5 & 6)** | | | | $ 35,481.20 |
| **8. PROFIT: Labor Related Costs (Item 7** x 10% | | | | $ 3,548.12 |
| **PART III - OTHER COSTS** | | | | |
| **9. Miscellaneous Direct Costs** | | | | |
| Transportation & Shipping | | | $ 0.00 | |
| Original Reproducibles | | | $ 0.00 | |
| Reproduction | | | $ 0.00 | |
| Other | | | $ 0.00 | |
| MISCELLANEOUS DIRECT COSTS SUB-TOTAL | | | | $ - |
| **10. SUBCONTRACTS (Lump Sum)** | | | | |
| FR Aleman SUE Designations (3 days designating and 30 test h | | | $ 15,360.33 | |
| | | | $ 0.00 | |
| | | | $ 0.00 | |
| | | | $ 0.00 | |
| | | | $ 0.00 | |
| SUB-CONTRACT SUB-TOTAL | | | | $ 15,360.33 |
| TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10) | | | | $ 54,389.65 |
| **11. REIMBURSABLE COSTS (Limiting Amount)** | | | | |
| Addenda Support | | | $ 0.00 | |
| Construction Support Services | | | $ 0.00 | |
| SUB-TOTAL REIMBURSABLES | | | | $ - |
| **PART IV - SUMMARY** | | | | |
| TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11) | | | | **$ 54,389.65** |

# SUE FOR TASK 1B (CONTINGENCY)

| | | | | | |
|---|---|---|---|---|---|
| **Contract Fee Summary for** | | | | | |
| **LaSalle St (from San Marco Blvd to Naldo Ave)** | | | | | |
| **PART I - GENERAL** | | | | | |
| **1. Project** - LaSalle St | | | **2. Project Number** | | |
| (from San Marco Blvd to Naldo Ave) | | | | | |
| **3. Name of Consultant** | | | **4. Date of Proposal** | | |
| F.R. Aleman and Associates, Inc. | | | 2/26/2018 | | |
| **PART II - LABOR RELATED COSTS** | | | | | |
| **5. DIRECT LABOR** | Hourly Rate | Estimated Hours | Estimated Cost | | TOTAL |
| Principal | | | $ | 0.00 | |
| Project Manager (Responsible Prof.) | $ 46.00 | 6 | $ | 276.00 | |
| Senior Project Engineer | | | $ | 0.00 | |
| Project Engineer | | | $ | 0.00 | |
| Engineer Intern | | | $ | 0.00 | |
| Senior Designer | | | $ | 0.00 | |
| Sr. Utility Coordinator | $ 56.50 | | $ | 0.00 | |
| Sr. Utility Technician | $ 28.00 | | $ | 0.00 | |
| Utility Technician | $ 25.00 | | $ | 0.00 | |
| Designer/GIS Survey-SUE Analyst | $ 35.50 | | $ | 0.00 | |
| CADD Technician | $ 32.62 | | $ | 0.00 | |
| Clerical | $ 20.00 | | $ | 0.00 | |
| | | | | **TOTAL DIRECT LABOR** | **$ 276.00** |
| **6. OVERHEAD (Combined Fringe Benefits & Administrative)** | | | | | |
| Overhead Rate | 176.79% | | | | $ 487.94 |
| **7. SUBTOTAL: Labor + Overhead (Items 5 & 6)** | | | | | **$ 763.94** |
| **8. PROFIT: Labor Related Costs (Item 7)** | | | x | 10% | $ 76.39 |
| | | | | **SUB-TOTAL SALARY RELATED COSTS** | **$ 840.33** |
| **PART III - OTHER SERVICES p/Units** | | | | | |
| **9. MISCELLANEOUS DIRECT COSTS** | | Estimated Units | | Unit Price | |
| SUE Services - Designating | (Day) | 3 | | $ 1,840.00 | $ 5,520.00 |
| SUE Services - Locating | (Day) | | | $ 1,880.00 | |
| Test Holes (Soft Surface) Min. 5 for mobilization | (Unit) | 30 | | $ 300.00 | $ 9,000.00 |
| Test Holes (Hard Surface) Min. 5 for mobilization | (Unit) | | | $ 360.00 | $ - |
| Standard MOT Services | (Day) | | | $ 500.00 | $ - |
| Advanced MOT Services | (Day) | | | $ 1,200.00 | $ - |
| | | | | **MISCELLANEOUS DIRECT COSTS SUB-TOTAL** | **$ 14,520.00** |
| **10. SUBCONTRACTS (Lump Sum)** | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | **SUB-CONTRACT SUB-TOTAL** | **$ -** |
| **PART IV - SUMMARY** | | | | | |
| **TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)** | | | | | **$ 15,360.33** |

# CONTRACT FEE SUMMARY FORMAT FOR ENGINEERING DIVISION
# CITY OF JACKSONVILLE, FLORIDA

## PART I - GENERAL

| | |
|---|---|
| **1. Project**<br>LaSalle Street Stormwater Pump Station TASK 3 | **2. Contract Number**<br>P-59-17 |
| **3. Name of Consultant**<br>R.E. Holland & Associates, Inc. | **4. Date of Proposal**<br>3/6/2018 |

## PART II - LABOR RELATED COSTS

| **5. Direct Labor** | Hourly Rate | Estimated Hours | Estimated Cost | TOTAL |
|---|---|---|---|---|
| Principal | $ - | 0 | $ 0.00 | |
| Project Manager | $ 45.00 | 6 | $ 270.00 | |
| Design Engineer or Architect | $ - | 0 | $ 0.00 | |
| MOT | $ 60.00 | 20 | $ 1,200.00 | |
| Drafter | $ 30.00 | 33 | $ 990.00 | |
| Survey Crew | $ 58.80 | 108 | $ 6,350.11 | |
| Clerical | $ 25.00 | 6 | $ 150.00 | |
| **TOTAL DIRECT LABOR** | $51.79 | 173 | | $ 8,960.11 |
| **6. Overhead (Combined Fringe Benefit & Administrative)** | | | | |
| Overhead Rate | | 150 % x Total Direct Labor | | $ 13,440.17 |
| **7. SUBTOTAL: Labor + Overhead (Items 5 & 6)** | | | | $ 22,400.28 |
| **8. PROFIT: Labor Related Costs (Item 7** | | x | 10% | $ 2,240.03 |

## PART III - OTHER COSTS

| | | |
|---|---|---|
| **9. Miscellaneous Direct Costs** | | |
| Transportation & Shipping | $ 0.00 | |
| Original Reproducibles | $ 0.00 | |
| Reproduction | $ 0.00 | |
| Other | $ 0.00 | |
| MISCELLANEOUS DIRECT COSTS SUB-TOTAL | | $ - |
| **10. SUBCONTRACTS (Lump Sum)** | | |
| | $ 0.00 | |
| | $ 0.00 | |
| | $ 0.00 | |
| | $ 0.00 | |
| | $ 0.00 | |
| SUB-CONTRACT SUB-TOTAL | | $ - |
| TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10) | | $ 24,640.31 |
| **11. REIMBURSABLE COSTS (Limiting Amount)** | | |
| Addenda Support | $ 0.00 | |
| Construction Support Services | $ 0.00 | |
| SUB-TOTAL REIMBURSABLES | | $ - |

## PART IV - SUMMARY

| | |
|---|---|
| TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11) | **$ 24,640.31** |

13 February 2017

Michael R. Klink, PE
**Four Waters Engineering, Inc.**
8657 Baypine Road
Suite 300
Jacksonville, Fl 32256

Re: COJ LaSalle Street Stormwater Pump Station Route Revised Survey Proposal

Dear Michael:

Pursuant to your request and on behalf of the firm, we are pleased to submit our proposal for our services on the above referenced project. We are confident that our survey product will be an asset to your design activities. Based on our telephone conversation, a review of our records and a personal walk over of the site, we are pleased to offer the following scope of work and fee proposal for your review and approval:

## SCOPE OF WORK:

**TASK 1A:** Prepare a Topographic, Tree and Route Survey of the proposed pump station route along the public right-of-way of LaSalle Street, from San Marco Boulevard, west to the termination of LaSalle Street at St. Johns River (see attachment) for a project centerline length of approximately 750 feet, plus 25 feet along each side intersection street, for a total project survey length of approximately 850 linear feet. The route survey shall be utilized for the purposes of a civil engineering design for a proposed COJ Storm Water Pump Station. Width of the survey effort will be from Right of Way to Right of Way, and will include the horizontal location of the foundation of the houses on both sides of the roadway. Overhead utility lines, poles, trees, curbing, and sidewalks, along with the finished floor elevations of all buildings along LaSalle Street, will also be gathered. Location of any visible above ground improvements, including sanitary and drainage structures, inverts and sizes is included under this proposed scope. Topography cross sections will be provided on a 50 stationing. Additionally, water depth and topography 10' and 20' off the existing bulkhead at the termination of said LaSalle Street right-of-way at the St. Johns River will be obtained, together with a portion of remaining pilings.

**TASK 1B:** Prepare a Topographic, Tree and Route Survey of the proposed drainage route along the public rights-of-way of LaSalle Street, from Naldo Avenue, west to it's intersection with San Marco Boulevard (see attachment) for a project centerline length of approximately 1500 feet, plus 25 feet along each side intersection street, for a total project survey length of approximately 1750 linear feet; scope of work will be the same as Task 1A above, less any river bulkhead locations.

**TASK 2.** Provide supplemental SUE efforts via F. R. Aleman to meet ASCE 38-02 Quality Level A test holes and Level B underground utility designations for the length of the proposed route (see attached proposals from Aleman).

**TASK 3.** Provide limited survey data on 150 storm water structures (see attachment location); provide grate/lid elevations, invert elevations, and pipe sizes and apparent direction; also provide 25 individual spot elevations of centerline of roadway within the basin area, together with 25 FFE's of selected buildings, all as directed by engineer; 10 high water mark elevations, where visible and readily accessible, will be located; deliverables for this task will be a CADD point file, relative to the project rotation; no drawing or linework of R/Ws and property lines will be submitted.

Deliverables will be a Topographic and Boundary Survey CADD file per the CADD requirements as received from JEA. Horizontal datum shall be referenced to State Plane Coordinates (NAD 83/90) for the State of Florida and vertical datum shall be referenced to NAVD 1988 from a published governmental Bench Mark. Location of underground utility services will be performed by others as a subcontractor to the CLIENT. It is understood that COJ will provide field support as needed for the cleaning out and/or opening of all storm water structures, in order that accurate survey measurements can be obtained. It is further understood that COJ/JEA will inform all affected property owners along the proposed route of our impending presence on site on their private property for the purposes of obtaining the required survey data for the engineering design.

Tree identifications performed in conjunction with a request for tree locations will be identified as to species to the best of our knowledge and belief; however, R. E. Holland & Associates, Inc. will assume no liability, expressed or implied, for the correctness of said species identification. COJ protected tree locations will be provided within the existing R/W for all trees 4" DBH and larger. Jurisdictional wetlands, if any, will be located from field points as established by others and at an additional fee of $1.00/ft. as measured from point to point.

We anticipate delivery of the preliminary product within 45-60 days from receipt of written Notice To Proceed, weather and site conditions permitting. Final deliverables shall be two (2) signed and sealed blueline prints, and an electronic drawing file, if requested. Additional sealed copies may be furnished at a nominal charge, if requested. We are ready to begin our services immediately upon receipt of Notification to Proceed. Our fees for the above services will be as noted on the attached man hour estimate; estimated fees will not be exceeded without prior written authorization from the CLIENT. We shall invoice you on a monthly progressive billing cycle for the to-date percent complete and we will expect full payment for each monthly invoice within 10 days from the date of the respective invoice.

This scope of work is for a "one time" performance of the services as outlined herein; any survey points that are destroyed or lost due to construction activities, vandalism, acts of God, etc. that require replacement shall be replaced at CLIENT's expense and upon your authorization. Should the scope of work be changed by CLIENT either in writing or verbally, CLIENT agrees to pay R. E. Holland & Associates, Inc. for any additional work involved in said changes at our Standard Billing Rates, unless a supplemental contract is agreed to and executed by both parties prior to the commencement of the changes. In the event all or a portion of the work prepared or partially prepared by our firm be suspended, abandoned, or terminated by CLIENT or others, CLIENT shall pay R. E. Holland & Associates, Inc. for all fees, charges and services provided for the project, not exceeding any contractual limits specified herein.

R. E. Holland & Associates, Inc. will not be liable for damages resulting from the actions or inactions of any regulatory or governmental agencies, and shall only act as an advisor on behalf of CLIENT in all governmental relations. All original papers, documents and all work product and copies thereof, produced as a result of or incidental to this contract shall remain the property of R. E. Holland & Associates, Inc. CLIENT agrees to grant us the right to assign without notice this agreement or any part thereof as we shall deem necessary for the completion of this project. We agree not to unreasonably damage the subject property, but CLIENT agrees to grant R. E. Holland & Associates, Inc. the right to cut bushes and trees and to remove other objects interfering with our work as necessary in the performance of our work.

CLIENT further agrees that the standard of care for R. E. Holland & Associates, Inc.'s performance under this contract shall be the ordinary and reasonable duty and care associated with this type of work in the community of Jacksonville, Florida and that the proper venue for litigation of any cause of action hereto shall be that court of jurisdiction in Jacksonville, Florida. Should litigation be necessary to enforce any term of this agreement or any cause of action related thereto, then all litigation and collection expenses, witness fees, court costs and reasonable attorney's fees for R. E. Holland & Associates, Inc. shall be paid by the addressee. It is further understood and agreed that this contract is between R. E. Holland & Associates, Inc. and the addressee only, and payment to R. E. Holland & Associates, Inc. shall not be contingent on payment(s) from a third party.

This agreement supersedes any prior agreement, either expressed or implied, between the parties and that the terms and conditions stated herein constitute the full and complete agreement between the parties and no change or amendment thereof shall be effective except as agreed to in writing by both parties. If the above conditions are acceptable to CLIENT, please indicate your acknowledgment and agreement by executing this proposal in the space provided below.

Once again, we appreciate this opportunity to submit this proposal to you and we look forward to hearing from you in the near future. If you have any questions, please do not hesitate to call me personally.

Thank you!

**R. E. HOLLAND & ASSOCIATES, INC.**

Robert E. Holland, Sr., PSM
President

Accepted By:_____

Printed Name:_____

Accepted for: _____

Date:_____

File: COJ Four Waters LaSalle Street Route Survey Stormwater 2018

# SUE FOR TASK 1A

F.R. ALEMAN
& Associates, Inc.
6196 Lake Gray Blvd., Ste. 101, Jacksonville, Florida 32073
Tel: (904) 779-5972 | Fax: (904) 779-5974

CONSULTING ENGINEERS & SURVEYORS

January 25th 2017

**R.E. HOLLAND & ASSOCIATES, INC.**
ATTN: Tom Smith, PSM
Executive Vice President
9770 Baymeadows Rd, Suite 105
tjs@reholland.net

RE: **COJ LaSalle Street Storm water Pump Station**

SUBJECT: Price Proposal for Subsurface Utility Locating Services

Dear Mr. Smith,

Per your request, F.R. Aleman & Associates, Inc. (FRA) is pleased to submit our proposal to provide subsurface utility locating services to your organization as follows:

2 Days of Designating Services @ $1840.00 per Day
20 Utility Test Holes @ $ 300.00 per Test Hole
4 Hs of Project Management

## DESCRIPTION OF SERVICES

### GENERAL NOTES

FRA will provide subsurface utilities engineering (SUE) personnel, tools and specialized equipment to locate apparent underground public utilities. FRA is aware that utility test holes are being requested on an as needed basis, and exact locations have not yet been established. Utility Test Holes shall be performed per ASCE/CI 38-02 (Quality Level A) Standards. This proposal is based on public agencies allowing standard Maintenance of Traffic (MOT) (limited to Index 613) and typical daylight operations (8:00 AM – 5:00 PM). FDOT General Use Permit is included in this proposal. Should additional permitting and/or MOT be required, this proposal may need revision. Restoration shall be limited to standard SUE practices. Should additional restoration become necessary, this proposal may need revision. FRA will not be providing survey for this project; the project surveyor will be responsible to record our field markings for entry into project database.

### DESIGNATING

This service will include but not be limited to the following:

- Electromagnetic (EM) induction is a method in which a transmitter signal is applied by directly coupling to a target. So long as the target is metallic, a receiver is used to detect the transmitted signal. Passive detection is another technique used to locate naturally occurring magnetic fields that exist on power cables generating a 50/60 Hz signal. Some utility systems contain portions of non-metallic material, and, therefore, may be unlocatable using EM techniques.
- Ground penetrating radar (GPR) can assist in identifying non-metallic utilities and other structures which are unidentifiable using traditional EM techniques. The GPR method transmits EM waves which are pulsed at discrete distance and time intervals. The transmitted pulse radiates through the earth until a portion of energy is reflected from interfaces of contrasting electrical properties (e.g., pavement and soil interface, soil changes, and buried metallic objects), while the remaining energy continues until reaching additional reflectors, repeating the process. Reflected energy is received by the antenna for interpretation by the operator. Factors such as soil moisture, clay content, and variations in the dielectric constants of materials control the effectiveness of the GPR method. Wet, conductive soils severely attenuated GPR signals and thus affect the depth of exploration. GPR energy cannot transmit through ferrous objects since metal acts as a pure reflector. To accurately conduct a radar survey, several scans must be made across the target area. Confined or obstructed areas that restrict the scanning pattern an impeded the data collected and reduce the accuracy of the desired results.

**UTILITY TEST HOLES**

This service will include but not be limited to the following:

- Working in existing streets, roads, rights of way, etc., for excavating, measuring and recording the location, depth and condition of known underground utilities along project route.
- Excavation of test holes in such a manner as to prevent any damage to wrappings, coatings or other protective coverings (by use of vacuum/pressure excavations, hand digging, etc.).
- Furnishing and installation of color-coded, above ground, markers at grade level (e.g., PK nails, wooden hubs, and steel rods) directly above the centerline of the utility structure and recording the utility cover on the marker.
- Utility test holes shall not to exceed 225 sq. in. per cut.
- Cleanup of work sites to equal or better condition than before excavation.
- Backfill material shall be same or like material removed from test hole. No special backfill material is included in proposal.

**CONDITIONS & EXCLUSIONS**

Locating of underground utilities for pre-excavation:

- Utilities shall be marked per F.S. 556, prior to FRA field crew's work is to be performed. Following FRA work and prior to excavation, the contractor is responsible for securing locations of utilities through Sunshine One Call (800-432-4770) or 811.
- Utility locations are being provided to prevent or reduce the likelihood of utility conflicts and/or damage during excavation.
- Results are dependent upon field conditions at the time of locating services.
- FRA's proposed services do not include any support during construction phase. FRA would be please to provide similar services during construction phase (scope and fee to be determined).

FRA will use its best efforts to locate utilities but cannot guarantee all underground public can be located. We have estimated approximately **2 Days of Designating Services and 20 Utility Test Holes** for apparent underground

public utilities. Should significantly more utilities be found, or if utilities cannot be located, more test holes may be required. If needed, any additional test holes will be at the same rate as above and only done at your direction.

FRA appreciates the opportunity to submit this proposal and looks forward to our association on this project. This proposal is valid for acceptance through **30 DAYS FROM QUOTE** after which it shall be subject to reconfirmation by FRA. If this proposal is accepted prior to the above date, this pricing will be in effect through **60 DAYS FROM QUOTE** after which time it shall be subject to review and adjustment by FRA.

If you find this proposal acceptable, please sign the agreement in the spaces provided below and return the executed copy for our files, which will serve as your formal authorization for our services. We are prepared to commence work upon your authorization. Please do not hesitate to contact me if you have a question.

Sincerely,

Lis R. Tolstoy, PSM
Florida Regional Survey/SUE Director
FRAJax@fr-aleman.com

| **ACCEPTED AND AGREED:** | |
|---|---|
| **Client:** | R.E. Holland & Associates, Inc. |
| **Approved By:** | |
| **Title:** | |
| **Date:** | |

# SUE FOR TASK 1B (CONTINGENCY)

**F.R. ALEMAN**
& Associates, Inc.
6196 Lake Gray Blvd., Ste. 101, Jacksonville, Florida 32073
Tel: (904) 779-5972 | Fax: (904) 779-5974

CONSULTING ENGINEERS & SURVEYORS

February 13th, 2018

**R.E. HOLLAND & ASSOCIATES, INC.**
ATTN: Robert E. Holland, Sr, PSM
Executive Vice President
9770 Baymeadows Rd, Suite 105
reh@reholland.net

RE: **COJ LaSalle Street from San Marco Blvd to Naldo Ave**

SUBJECT: Price Proposal for Subsurface Utility Locating Services

Dear Mr. Smith,

Per your request, F.R. Aleman & Associates, Inc. (FRA) is pleased to submit our proposal to provide subsurface utility locating services to your organization as follows:

3 Days of Designating Services @ $1840.00 per Day
30 Utility Test Holes @ $300.00 per Test Hole
6 Hs of Project Management

## DESCRIPTION OF SERVICES

### GENERAL NOTES

FRA will provide subsurface utilities engineering (SUE) personnel, tools and specialized equipment to locate apparent underground public utilities. FRA is aware that utility test holes are being requested on an as needed basis, and exact locations have not yet been established. Utility Test Holes shall be performed per ASCE/CI 38-02 (Quality Level A) Standards. This proposal is based on public agencies allowing standard Maintenance of Traffic (MOT) (limited to Index 613) and typical daylight operations (8:00 AM – 5:00 PM). FDOT General Use Permit is included in this proposal. Should additional permitting and/or MOT be required, this proposal may need revision. Restoration shall be limited to standard SUE practices. Should additional restoration become necessary, this proposal may need revision. FRA will not be providing survey for this project; the project surveyor will be responsible to record our field markings for entry into project database.

### DESIGNATING

Quality Level B. QL-B involves the application of appropriate surface geophysical methods to determine the existence and horizontal position of virtually all utilities within the project limits.

This service will include but not be limited to the following:

- Electromagnetic (EM) induction is a method in which a transmitter signal is applied by directly coupling to a target. So long as the target is metallic, a receiver is used to detect the transmitted signal. Passive detection is another technique used to locate naturally occurring magnetic fields that exist on power cables generating a 50/60 Hz signal. Some utility systems contain portions of non-metallic material, and, therefore, may be unlocatable using EM techniques.
- Ground penetrating radar (GPR) can assist in identifying non-metallic utilities and other structures which are unidentifiable using traditional EM techniques. The GPR method transmits EM waves which are pulsed at discrete distance and time intervals. The transmitted pulse radiates through the earth until a portion of energy is reflected from interfaces of contrasting electrical properties (e.g., pavement and soil interface, soil changes, and buried metallic objects), while the remaining energy continues until reaching additional reflectors, repeating the process. Reflected energy is received by the antenna for interpretation by the operator. Factors such as soil moisture, clay content, and variations in the dielectric constants of materials control the effectiveness of the GPR method. Wet, conductive soils severely attenuated GPR signals and thus affect the depth of exploration. GPR energy cannot transmit through ferrous objects since metal acts as a pure reflector. To accurately conduct a radar survey, several scans must be made across the target area. Confined or obstructed areas that restrict the scanning pattern an impeded the data collected and reduce the accuracy of the desired results.

**UTILITY TEST HOLES**

This service will include but not be limited to the following:

- Working in existing streets, roads, rights of way, etc., for excavating, measuring and recording the location, depth and condition of known underground utilities along project route.
- Excavation of test holes in such a manner as to prevent any damage to wrappings, coatings or other protective coverings (by use of vacuum/pressure excavations, hand digging, etc.).
- Furnishing and installation of color-coded, above ground, markers at grade level (e.g., PK nails, wooden hubs, and steel rods) directly above the centerline of the utility structure and recording the utility cover on the marker.
- Utility test holes shall not to exceed 225 sq. in. per cut.
- Cleanup of work sites to equal or better condition than before excavation.
- Backfill material shall be same or like material removed from test hole. No special backfill material is included in proposal.

**CONDITIONS & EXCLUSIONS**

Locating of underground utilities for pre-excavation:

- Utilities shall be marked per F.S. 556, prior to FRA field crew's work is to be performed. Following FRA work and prior to excavation, the contractor is responsible for securing locations of utilities through Sunshine One Call (800-432-4770) or 811.
- Utility locations are being provided to prevent or reduce the likelihood of utility conflicts and/or damage during excavation.
- Results are dependent upon field conditions at the time of locating services.
- FRA's proposed services do not include any support during construction phase. FRA would be please to provide similar services during construction phase (scope and fee to be determined).

FRA will use its best efforts to locate utilities but cannot guarantee all underground public can be located. We have estimated approximately **3 Days of Designating Services and 30 Utility Test Holes** for apparent underground public utilities. Should significantly more utilities be found, or if utilities cannot be located, more test holes may be required. If needed, any additional test holes will be at the same rate as above and only done at your direction.

FRA appreciates the opportunity to submit this proposal and looks forward to our association on this project. This proposal is valid for acceptance through **30 DAYS FROM QUOTE** after which it shall be subject to reconfirmation by FRA. If this proposal is accepted prior to the above date, this pricing will be in effect through **60 DAYS FROM QUOTE** after which time it shall be subject to review and adjustment by FRA.

If you find this proposal acceptable, please sign the agreement in the spaces provided below and return the executed copy for our files, which will serve as your formal authorization for our services. We are prepared to commence work upon your authorization. Please do not hesitate to contact me if you have a question.

Sincerely,

Lis R. Tolstoy, PSM
Florida Regional Survey/SUE Director
FRAJax@fr-aleman.com

| **ACCEPTED AND AGREED:** | |
|---|---|
| **Client:** | R.E. Holland & Associates, Inc. |
| **Approved By:** | |
| **Title:** | |
| **Date:** | |
| **Client Project No.** | |

# LASALLE STREET OUTFALL IMPROVEMENTS

## SUBCONSULTANT PROPOSAL

## BLOOD HOUND

Blood Hound
750 Patricks Place
Brownsburg, IN 46112

**ESTIMATE**

| | |
|---|---|
| Created Date | 1/29/2018 |
| Estimate Number | 37664 |
| Region | NFL |

| | | | |
|---|---|---|---|
| Customer | Four Waters Engineering | Name | Michael Klink |
| Billing Phone | (904) 414-2400 | Phone | (904) 414-2400 xt 54 |
| Billing Address | 324 6th Avenue North<br>Jacksonville Beach, FL 32250 | Email | mklink@4weng.com |
| Job Site Location | Lasalle Street CCTV, 800 Lasalle Street,<br>Jacksonville, Florida, 32207 | | |

| Product | Quantity | Sales Price | Total Price |
|---|---|---|---|
| Jetting (unit) | 2,910.00 | $5.10 | $14,841.00 |
| Lateral Launch Sewer Cam (unit) | 2,910.00 | $3.65 | $10,621.50 |
| Miscellaneous | 1.00 | $4,000.00 | $4,000.00 |
| Traffic Control - Level 4 | 5.00 | $1,400.00 | $7,000.00 |
| | Grand Total | | $36,462.50 |

Scope of Work

Customer SOW Check existing conditions of storm pipes

BHUG SOW

Customer has requested an estimate based on the following scope of work:

- CCTV and Inspect multiple lines as follows:
  - Camera inspection with PACP reporting of storm pipes for the City of Jacksonville.
  - This includes 20' of all connecting laterals as shown on the provided map.
  - The 30" and 42" pipes will need plugged and drained for camera work.
    - CCTV - approximately 2,050' of 42" stormwater pipe and 860' of 30" stormwater pipe.
      - **Per foot price of $3.65 will be invoiced for CCTV.**
    - Client would also like 20' upstream of all connecting stormwater pipes into the main trunk line.
    - This stormwater pipe is generally full of water and will require to be plugged and pumped out for TVing.
    - Please note that Traffic Control and Permitting are **NOT** included in this estimate. If they are needed then additional fees will be added to the invoice
  - Client has also requested pricing for Jetting/Cleaning the lines. It is not known if this service would be performed by Blood Hound of the City.
    - **Per foot price of $5.10 will be charged for Jetting/Cleaning. Please note this price includes up to two disposals per day (5 days). Any**

Blood Hound
750 Patricks Place
Brownsburg, IN 46112

ESTIMATE

| | |
|---|---|
| Created Date | 1/29/2018 |
| Estimate Number | 37664 |
| Region | NFL |

**additional disposal trips necessary will be invoiced out at an additional $125.00 per trip. It is suggested that the lines are drained/dewatered prior to cleaning without having to haul the water away.**

- Client has requested the pricing be based on a per foot basis.
- Lines vary in length.
- Manhole access and truck can get next to access point.
- Approximately 300 LFT between Manholes.
- Client does not know condition of lines, or if Jetting/Cleaning would be needed. Lines will also have water in them.
- Client provided Prints/Images where they have tried to indicate the lines that need to be inspected.
- Client is looking to have Storm Lines inspected ONLY.
- Client is responsible for all GPS Data Collection if needed.
- Blood Hound will locate and mark with paint the locations on the surface and identify on a not-to-scale site sketch.
- A PACP report and all recordings will be provided to client. PACP Report is for Robotic Camera Videos ONLY. An additional fee would be charged if a report is needed on videos created from Push/Pull Cameras.
- **Estimate includes daily rates for traffic control up to 5 days.**
- **Misc. Item was added to cover the pump and hose, as well as set up in order to dewater the pipes prior to cleaning. Per City, the water can be pumped to the river. This pay item also includes plugging the pipe for the work to take place.**

*Blood Hound will use electromagnetic (EM) and ground-penetrating-radar (GPR) equipment to locate private underground utilities at site indicated by client. All findings will be marked according to APWA standard. Customer is responsible for calling 811 for locates of any public utilities. If the scope of work should change or is different than that listed on estimate, please call our office for a revised estimate.*
*Unless expressly noted, Vacuum Excavation estimates do not include any of the following services: Permitting, Traffic Control, Restoration, Special Restoration, Special Backfill or Waste Disposal. If you need any of those services please call our office for a revised estimate.*
*Blood Hound is not responsible for the condition of the pipes or structures before or after jetting/clearing service is performed. Unsatisfactory conditions could be present within the structure and any services may bring those deficiencies to light.*
*In the event of inclement weather, if the client still requests for crew to arrive on site, then the client will be responsible for minimum charges even if no work is performed.*

**Payment is due at the time of service, unless you already have an account with us. If you do have an account with us, payment terms are Net 30 days, unless otherwise stated in a pre-approved contract. To learn more, please call the office at 888-858-9830.

**PRICE MAY VARY BASED ON ACTUAL TIME ON SITE. The above pricing is based only on the information supplied by the customer. If a site walkthrough has not been conducted, this may affect the price.

WE LOOK FORWARD TO WORKING WITH YOU!

LASALLE STREET OUTFALL IMPROVEMENTS

DIRECT COSTS – VARIABLE MESSAGE BOARDS PROPOSAL

ACME

# ACME BARRICADES, LC

9800 Normandy Blvd.
Jacksonville, FL 32221
(904)781-1950
(904)781-1921 fax

## RENTAL QUOTATION

CUSTOMER: 4 WATERS ENGINEERING DATE: 2/28/2018

FAX: PHONE: 904-993-3724

ATTN: ANGELA QUOTED BY: HOLLY

| Total Quantity | Unit | Item Description | Unit Price | Ext. |
|---|---|---|---|---|
| | | | | |
| 28 | EA | MESSAGEBOARDS (4 X 7 DAYS) | $ 65.00 | $ 1,820.00 |
| 112 | EA | DRUMS (16 X 7 DAYS) | $ 0.50 | $ 56.00 |
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| | | SAN MARCO | | |
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| | | | | |
| SPECIAL QUOTATION (Comment or Instruction) | | | SUBTOTAL | $ 1,876.00 |
| | | | TAX | $ 131.32 |
| *These prices are good for 30 days from date of quote.* | | | TOTAL | $ 2,007.32 |
| If you are satisfied with this quote, please sign below and return to our office. | | | DELIVERY | $ 180.00 |
| | | | TOTAL | $ 2,187.32 |

Signature:_____

_____
Print Name

**EBO FORM 1**
**SCHEDULE OF SUBCONTRACTOR/SUBCONSULTANT PARTICIPATION**

Name of Proposer: **Four Waters Engineering, Inc. (JSEB)**

Project Title: **Phase 1 LaSalle Street Outfall Improvements**

Proposal Number: **P-59-17** Total Base Proposal Amount (if applicable): **$540,406.30**

***Please list all JSEBs first**

| Full Company Name | JSEB Category (African-American, Women, Asian, Native American, Non-MBE or Hispanic) | Type of Work to be Performed | Total Contract Value or Percentage |
|---|---|---|---|
| Four Waters Engineering, Inc. | Women | Civil and Environmental Engineering | $540,406.30 |
| | | | |
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Attach additional list of subcontractors/sub-consultants as needed

| CONSULTANT/SUBCONTRACTOR/SUPPLIER TOTAL VALUES | |
|---|---|
| African-American Participation Total | $ |
| Hispanic-American Participation Total | $ |
| Native-American Participation Total | $ |
| Asian-American Participation Total | $ |
| Woman Participation Total | $540,406.30 |
| Non-MBE Participation Total | $ |

The undersigned will enter into a formal Agreement with the JSEB Suppliers/Consultants/Subcontractors identified herein for work listed in this schedule conditioned upon execution of a contract with the City of Jacksonville. Under penalties of perjury I declare that I have read the foregoing conditions and instructions and the facts are true to the best of my knowledge and beliefs.

Signature of Proposer: Angela Bryan Title: President Date: 3-20-2018

Print Name: Angela Bryan