



**II. FISCAL IMPACT ANALYSIS**

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

Fiscal Years	2026	2027	2028	2029	2030
Capital Expenditures	\$787,708	0	0	0	0
Operating Costs	0	0	0	0	0
External Revenues	(\$377,432)	0	0	0	0
Program Income (County)	0	0	0	0	0
In-Kind Match County	0	0	0	0	0
<b>NET FISCAL IMPACT</b>	<b>\$410,276</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
# ADDITIONAL FTE POSITIONS (Cumulative)	0	0	0	0	0

**Budget Account No.:** Fund 4011 Dept 721 Unit W031 Object 6546

Is Item Included in Current Budget? Yes X No     

Does this item include the use of Federal Funds? Yes      No X

Does this item include the use of State Funds? Yes      No X

Reporting Category N/A

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

One (1) time expenditure from user fees, connection fees and balance brought forward. The City of Lake Worth Beach will contribute \$377,432 toward this expenditure to fund its share of the joint-use facilities.

C. Department Fiscal Review: *Jbony Lorenson*

**III. REVIEW COMMENTS**

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

*ASDUC* 3/13/26  
OFMB *CA 3/13*

*Brandy Mack* 3/16/26  
Contract Development and Control  
26 3.16.26

**B. Legal Sufficiency:**

*[Signature]* 3/17/26  
Assistant County Attorney

**C. Other Department Review:**

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

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



CONSULTANT SERVICES AUTHORIZATION NO. 4  
Palm Beach County Water Utilities Department  
Contract for Consulting/Professional Services  
*MASTER LIFT STATION AND REPUMP IMPROVEMENTS*  
Resolution No. R2021-0508 Contract Dated April 20, 2021

**Project Title:** Improvements to Lift Stations 5229, 5236 and 5241

**PBCWUD Project No.:** 21-064

5. SBE participation is included in **ATTACHMENT C** under this Authorization. The attached Schedule 1 defines the SBE applied to this Authorization and Schedule 2 establishes the SBE contribution from each Sub-Consultant (Letter of Intent).
6. This Authorization does not amend, change, or modify the Contract dated April 20, 2021 which remains in full force and effect.
7. All Attachments to this Authorization are incorporated herein and made a part of this Consultant Services Authorization.
8. The Contract and this Consultant Services Authorization is subject to the County Emergency Ordinance 2025-014, approved by the Board of County Commissioners on June 3, 2025.

CONSULTANT SERVICES AUTHORIZATION NO. 4  
Palm Beach County Water Utilities Department  
Contract for Consulting/Professional Services  
**MASTER LIFT STATION AND REPUMP IMPROVEMENTS**  
Resolution No. R2021-0508 Contract Dated April 20, 2021

**Project Title:** Improvements to Lift Stations 5229, 5236 and 5241

**PBCWUD Project No.:** 21-064

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

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

Michael A. Caruso, Clerk of the Circuit Court  
& Comptroller, Palm Beach County

Palm Beach County, Board  
of County Commissioners

ATTEST:

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

Typed Name: \_\_\_\_\_  
Deputy Clerk

*EF*  
*SA*  
Signed: \_\_\_\_\_  
Sara Baxter, Mayor

*AB*  
\_\_\_\_\_  
(Date)

Approved as to Form and Legal  
Sufficiency

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

Typed Name: Michael W. Jones  
County Attorney

AECOM Technical Services, Inc.  
(Consultant)

Karen Brandon, PE  
(Print Name)

*Karen Brandon*  
(Signature)

Associate Vice President/Authorized Signatory  
(Title)

01/29/2026  
(Date)

STATE OF FLORIDA

COUNTY OF Palm Beach

The foregoing instrument was acknowledged before me by means of  physical presence or  online notarization,

this 29th day of January, 2026, by Karen Brandon who is  personally known to me or

has produced \_\_\_\_\_ as identification.



*Deborah L. Williams*  
(Signature of Notary Public - State of Florida)

Deborah L. Williams

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



AECOM Technical Services, Inc. 213.593.8100 tel  
300 South Grand Avenue 213.593.8730 fax  
9<sup>th</sup> Floor  
Los Angeles, CA 90071  
www.aecom.com

**SECRETARY'S CERTIFICATE**


**AECOM TECHNICAL SERVICES, INC.  
a California corporation**

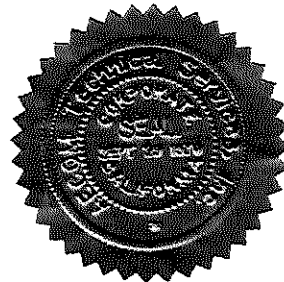
I, Armond Tatevossian, DO HEREBY CERTIFY that I am a duly elected and acting Secretary of AECOM Technical Services, Inc., a corporation organized under the laws of the State of California ("ATS" or "Corporation"), and the keeper of its records and corporate seal.

I FURTHER CERTIFY that the Corporation's principal place of business is 300 South Grand Avenue, 9<sup>th</sup> Floor, Los Angeles, California 90071.

I FURTHER CERTIFY that pursuant to the Written Consent of the Board of Directors of ATS, adopted on October 1, 2025, and attached hereto as Exhibit A, Karen Brandon has signatory authority for ATS and is authorized to execute contracts and other documents on behalf of the Corporation.

IN WITNESS WHEREOF, I have subscribed my name and affixed the seal of the Corporation, this 17<sup>th</sup> day of November 2025.

  
Armond Tatevossian  
Secretary



**UNANIMOUS ACTION OF THE BOARD OF DIRECTORS  
OF  
AECOM TECHNICAL SERVICES, INC.**

The undersigned, being all the members of the Board of Directors of AECOM TECHNICAL SERVICES, INC. (the "Corporation"), a California corporation, hereby take the following action:

**RESOLVED:** That, "the following U.S. based persons are designated with authority by the Board of Directors to execute contracts and other legal documents on behalf of the Corporation within the boundaries of specific Regions and Business Lines as noted and effective as of the dates set forth below:"

Effective October 1, 2025:

Last Name	First Name	Region	Business Line
Brandon	Karen	East	Water

**LIST OF ATTACHMENTS**

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

# ATTACHMENT A

## SCOPE OF SERVICES

PBCWUD Project No.: 21-064

Project Title: Improvements to Lift Stations 5229, 5236 and 5241

AECOM Technical Services, Inc. (CONSULTANT) shall perform:

### **Project Background**

Lift Station (LS) 5229 is the largest pump station in the Palm Beach County Water Utilities Department (PBCWUD) service area and is critical for the conveyance of wastewater in the central region of Palm Beach County (PBC). LS 5229 was originally constructed in 1978 as a wet well/dry well configuration and then converted to an in-line booster within the last 20 years. It is served by two (2) vertical non-clog pumps each rated for 24,000 gallons per minute (GPM) at 132-foot Total Dynamic Head (TDH). Each pump is driven by a 1,000 Horsepower (HP) variable frequency drive (VFD) motor. Firm pumping capacity with one (1) pump out of service is approximately 34.6 million gallons per day (MGD). There is currently no backup LS or other means that will allow the existing LS 5229 to be reliably taken out of service for either emergency conditions or to perform station improvements. Other considerations regarding LS 5229 include:

- A previous assessment of LS 5229 was done several years ago and required verification for current conditions and understanding of needs.
- An understanding of redundancy needs is required; if LS 5229 is out of service or if LS 5241 is needed to convey flows.
- Documentation of various maintenance activities and improvements that have taken place by PBCWUD staff over the last several years.

LS 5236 was originally constructed in 1978. The current pump station has three (3) pumps with space and a blind flange connection for a fourth pump to be installed. The station is outdated, and equipment is presumed to be non-operational. The structure is currently being used for storage. LS 5236 is currently out of service with the intention that the station is to be demolished and the upper level to be converted into a storage unit, and the odor and corrosion control system will be relocated onsite and active. No further considerations are anticipated relating to LS 5236.

LS 5241 was originally constructed in 1978. The current pump station has three (3) pumps as well as a smaller pump to maintain wet well level when the station is not in use. The station is outdated but can operate in a limited capacity. LS 5241 is currently out of service with the intention that the station may be converted from its current wet well/dry well configuration to another operating configuration necessary for backup to LS 5229 and allow for improvements to be constructed to LS 5229.

Following the recommendations outlined in the Improvement Analysis Memo dated May 31, 2022, Option No. 4 was confirmed as the preferred course of action. To support the development of this option, a site visit was conducted on August 19, 2025, with operations personnel to assess current conditions and gather additional input. Based on the memo findings and site visit observations, the program of work to be developed through architectural and engineering services will include the following:

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## Lift Station 5229

1. Improvements to LS 5229 and bypass connections at LS 5241 which include rehabilitation, renewal, operational improvement, and reliability enhancements:

### Architectural and Structural

- Operations staff need provisions included for extended occupancy of the LS during severe weather (Hurricane) events. Among these improvements would be enhancements of the existing bathroom. The improvements will include extending the interior wall to include a shower.
- Extend the catwalk between the two pump access platforms in downstairs pump room.

### Civil (exterior site and yard piping)

- Replacement of two (2) 42-inch and two (2) 48-inch large diameter yard valves around the integral bypass including the addition of motor actuators.
- Repair and restoration of the existing 24-inch check valve for low-pressure bypass system.
- Replacement of air release valves with larger units sized for the force mains.

### Process Mechanical

- Replacement of the suction and discharge valves including the addition of motor actuators and manual backup hand wheel/chain.
- Replacement of the swing check valves with either cushioned swing check valves or actuated pump check ball valves.
- Install a new seal water system with a small storage tank and pump. The existing potable water line will fill the storage tank, while the pumps will supply the seal water system. Size pump for 6 GPM at 15 pounds per square inch (PSI).
- Replace existing 2-inch drain lines from the suction line with two (2) 30"x12" tees
- Install new flow meter

### Electrical and Instrumentation and Control

- Include new electrical load bank permanently installed at the pump station with switching to select load bank at pump station to test the generator under load bank.
- Include new shunt trip control at the side entrance to the station's electrical room to allow for shutting down of Normal Florida Power & Light (FPL) 4160V feed. Coordinate with existing generator E-stop/shunt trip to also shut down emergency power. Provide a solution to staff and fire department in the event of a fire. This is in lieu of replacement of the main breaker, as this is an expensive option that most likely can be avoided with a normal power E-stop control station wired into the breaker's auxiliary controls.
- Provide revised electrical one lines for normal and emergency power that includes modifications stated above.
- Design for an additional flow meter for the proposed integral bypass piping. This shall include power, and signal conduit and wires to existing control panel. Provide specifications for contractor doing work also to program new instruments into Programmable Logic Controller (PLC), coordinate with PBCWUD staff.
- Include any replacement of existing instruments as needed.
- Design improvements to the operation of the station – programming logic as

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needed to convey staff's desire for changes in the operation of the station moving forward.

- Design power and controls for eight (8) new electric actuator valves.
- Include any new field instruments that may be installed along with the motorized actuators, like pressure transmitters, or flow switches, as required.
- Include the design to use key cards to access doors into the existing building. The proposed new key card access security system shall include raceways for unlocking doors and key card readers at specific door locations as well as a control panel for key card access.
- Addition of key access reader at a new motorized access gate system, with vehicle detection loops (inside portion) and an entry Closed-Circuit Television (CCTV) camera.
- Provide for a CCTV video camera system in accordance with PBCWUD Facilities, and a control panel for CCTV, or a central location for the CCTV digital video recorder.
- Provide changes in programming and or upgrade if available to the existing VFD equipment to provide de-ragging capabilities.

### **Lift Station 5236**

#### **Decommissioning**

- Remove and dispose of all mechanical equipment

#### **Structural /Architect**

- Fill the wet well and lower-level dry pit with flowable fill or lightweight concrete
- Restore the dry pit floor to be used as storage units
- Equipment pads

#### **Civil (exterior site and yard piping)**

- Site restoration to include soil after backfilling the area, then installing sod (like Bahia)
- Reconfigure existing yard piping, reconstruct Air Release Valve (ARVs) and install a new flow meter
- Relocate Odophos unit to the front of the site
- A new chemical injection point manhole over the existing force main at the front of the property
- New equipment pads
- Reconfigure the existing driveways to accommodate the 18 wheeler chemical delivery truck

#### **Electrical**

- Demolition of the existing 480V service, and provide engineering to provide lighting and receptacles for converting the existing building as a storage facility. There will be some demolition of existing areas and equipment that we will coordinate with structural and civil, and provide improvements for lighting and receptacles for the rehabilitated interior building as required. We will provide design and demolition of certain equipment no longer needed as a storage facility.

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- New service meter, panel and distribution power and controls to existing corrosion system
- Provide telemetry to existing corrosion system and remaining field instruments so PBCWUD has monitoring capabilities.
- Site lighting and grounding and lightning protection to the new site.
- Instrumentation and control for the new flow meter

### **Lift Station 5241**

#### **Decommissioning**

- Remove and dispose of all mechanical and electrical equipment
- Assess reusability of the existing diesel fuel storage tank. If unusable, remove and dispose of it.

#### **Structural /Architect**

- Fill the wet well and lower-level dry pit with flowable fill or lightweight concrete
- Install a new 2-ton electric monorail system on the dry pit area
- Restore the dry pit floor to be used as storage units
- Equipment pads
- Rehab of the existing bathroom includes cleaning, painting, refurbishment, and replacement of accessories. No plumbing work is included.

#### **Civil Site (Yard Piping)**

- Construct separate bypass connection
- Replacement of existing valves with motor-operated actuators
- Design and size diesel-driven bypass pumps to accommodate the full flow LS 5229 when required.
- Remove existing KGVs in the pump station yard
- Replace existing flow meter
- Site restoration

#### **Electrical**

- Demolition of the existing 13,200V and 4,160V service equipment
- Provide new 480V service with FPL to provide power to the proposed new motor actuators and miscellaneous instrumentation and other related equipment.
- Design power and controls for four (4) new electric actuator valves around the proposed piping integral bypass
- New field instruments that may be installed along with the four motorized actuators, like pressure transmitters, or flow switches, as required.
- New control panel, Remote Terminal Unit (RTU) telemetry, local PLC monitoring the motorized actuators/valves, and field instruments, along with diesel pumps status and alarms point.
- Provide power for new monorail

PBCWUD has requested the CONSULTANT provide design, permitting, and bid phase services to prepare for construction of these improvements and modifications.

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## **Assumptions**

1. PBCWUD will provide information related to pumping run times, pressures, existing pump curves, and background hydraulic models, for the necessary hydraulic analysis to be performed to define the required basis of design operating ranges of pressures and flows.
2. Independent flow metering is not included within this scope of work and is not anticipated to be required.
3. The size of pumps at LS 5229 will not be modified as a result of the hydraulic analysis. The hydraulic analysis will be used to determine the sizing of the bypass pumping.
4. The project will be bid, procured, and constructed as a single construction project.
5. Construction phase support services are excluded.
6. PBCWUD will perform any needed asbestos and lead surveys. CONSULTANT will incorporate owner-provided asbestos and lead survey data into the contract documents but will not perform sampling or abatement design. Contractor will be responsible for all abatement activities during construction.
7. Roof repair or replacement is not included as part of this scope of work.
8. Heating, Ventilation, and Air Conditioning (HVAC) is not part of this scope of work.
9. Landscape Architecture is not part of this scope of work.

The task structure for engineering and design delivery of the work by the CONSULTANT is anticipated to be as follows:

### **TASK 1 - Project Initiation and Management**

#### **Subtask 1.1 - Project Planning and Project Initiation Meeting**

At the outset of work, a detailed Project Delivery Plan (PDP) with Quality Management Plan (QMP) will be developed based on this scope of work, available information on the facilities, team member roles, agreed-upon schedule, deliverable requirements, and communications protocol of PBCWUD. Items of discussion during the project initiation meeting are anticipated to include:

1. Standard design and construction document criteria
2. Standard technical and procurement specifications
3. Review of roles, responsibilities, and critical schedule milestones
4. Initial review of possible regulatory agency and permitting requirements
5. Initial design concepts

#### **Subtask 1.2 - Project Reporting, Coordination, and Communications**

Updated schedules will be provided to reflect schedule changes that may occur during project development, coordination, and permitting. CONSULTANT shall provide monthly progress reports, including a summary of work performed and an updated permit register.

#### **Subtask 1.3 - Quality Control**

A QMP will be prepared as part of the project planning process and adhered to throughout the project delivery with quality and constructability review of all project deliverables. Submittals and correspondence will be reviewed before issuance.

#### **Deliverables - Project Initiation and Management**

1. Project Management Plan (Digital)

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2. Project Initiation Meeting Materials and Meeting Minutes (Digital)
3. Monthly Progress Reports (Digital)

## **TASK 2 - Existing Conditions and Field Investigations**

### **Subtask 2.1 - Existing Information and Engineering Field Investigations**

Design disciplines (Mechanical, Civil, Structural, Electrical, Instrumentation, and Architectural) will evaluate the as-built drawings and verify current field conditions. Existing facilities, project site plans, and right-of-way documentation will be supplemented with updated field conditions, subsurface utility data, and survey information as necessary to support design development and incorporation into subsequent design submittals. Additionally, the design team will review the hydraulic model provided by the PBCWUD to ensure consistency between the model and field conditions, as well as to inform design decisions. Comprehensive field assessment notes will be compiled and submitted to PBCWUD for their review.

As part of this task, Sunshine 811 (One-Call) design tickets will be submitted, and all utility companies or agencies identified on the design ticket with known or potential underground or aboveground facilities, utilities, easements, or structures within or adjacent to the project limits will be contacted.

Information will be requested regarding the location, alignment, size, diameter, material, and depth of cover of existing facilities to help avoid conflicts with proposed improvements. If record drawings are unavailable, the utility or agency will be asked to mark the best available information on a plan-view sheet and provide any supporting documentation. If no facilities exist within the project area, a written confirmation from the utility or agency stating that no utilities are present will be requested.

### **Subtask 2.2 – Topographic Survey and Subsurface Utility Investigation**

Carry out a field survey and subsurface utility investigation of the three (3) project sites and within the associated public right-of-way where the work is being performed to support the construction of the new facilities to include the following:

1. Determine dimensions, elevations, and measurements of existing pump station features, piping, and site layout.
2. Utilize ground penetrating radar (GPR) to identify buried utilities. Perform soft digs at proposed tie-in locations and critical pipe crossings. Place witness pipes with labels at found utilities so coordinates and depths can be obtained by the topographical surveyor.
3. Obtain site-specific information, such as the boundary survey and topographic survey.
4. Obtain specific boundary information, such as right-of-way lines, subdivision lines, lot lines, baselines, and easement lines, as required by the project.

The survey shall be signed and sealed by a Florida Registered Professional Land Surveyor.

Brown & Phillips, Inc. will provide services to conduct utility test hole excavations to obtain depth, diameter, and material of the force mains and utilities located around the force mains and gravity sanitary sewer rerouting. Brown & Phillips, Inc.'s scope of services assumes up to thirty (30) utility test hole excavations, comprised of fifteen (15) "Hard Digs" and fifteen (15) "Soft Digs" (grass, dirt areas, etc.).

### **Deliverables - Topographic Survey and Subsurface Utility Investigation**

1. Field assessment notes (Digital).
2. Field notes and sketches of the utility designations performed in pdf format.

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3. Utility test hole reports indicating findings of utility locates performed in Portable Document Format (pdf) format.
4. Topographic survey (signed and sealed) and (Digital)
5. Utility base file (Digital)

### **Subtask 2.3 - Geotechnical Investigation and Report**

A geotechnical investigation will be conducted at the three (3) project sites to support the design and construction of new facilities and associated piping. As part of this investigation, one Standard Penetration Test (SPT) boring will be performed to a depth of 10 feet at each pump station location. The borings will provide preliminary subsurface information necessary to evaluate soil conditions and inform foundation and utility design to include the following:

1. Identify soil types within the project area.
2. Identify the characteristics and properties of the soils under investigation.
3. Use soil characteristics, properties, and potential project geometrics to identify possible geotechnical concerns.
4. Provide geotechnical recommendations for engineering design.
5. Obtain groundwater table elevation.

Upon completion of the geotechnical investigation, prepare a geotechnical report for design engineering support and inclusion in the subsequent design submittals. The report shall include the following:

1. Brief description of soil conditions observed.
2. Conclusions and recommendations regarding:
  - a. Primary geotechnical engineering concerns and mitigating measures, as applicable.
  - b. Site preparation and grading including treatment of weak, porous, compressible, and expansive surface soils and the construction of fills.
  - c. Preparation of subgrade and aggregate base for pavement areas.
  - d. Foundation design, dewatering requirements with estimated groundwater flows, backfill material, and compaction methods.
3. Expected sub-surface conditions.

The geotechnical investigation and report shall be signed and sealed by a Florida Registered Professional Engineer.

### **Deliverables – Existing Conditions and Field Investigations**

1. Field Assessment Notes (Digital)
2. Property Easement Exhibit and Legal Description (Digital and Printed)
3. Property Survey, Signed and Sealed (Digital and Printed)
4. Geotechnical Findings and Design Recommendations Report (Digital and Printed)

## **TASK 3 - Design Delivery and Permitting**

### **Subtask 3.1 - Basis of Design Memorandum and Conceptual (30 percent) Design**

1. Hydraulic Analysis – Review the PBCWUD provided information related to pump run times, pressures, existing pump curves, and background hydraulic models. Develop the hydraulic analysis for anticipated system operation to define the required basis of design operating ranges of pressures and flows of the diesel-driven bypass pumps. A summary of the

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hydraulic analysis work, findings, and recommendations will be documented in a technical memorandum.

2. Basis of Design Memorandum

- a. Basis of Design Criteria Documentation – Provide a summary of the operating conditions and design requirements that will be used as a basis throughout the design process.
  - b. Equipment Review and Selection – Provide a shortlist review of the potential mechanical, electrical, and piping equipment to be implemented as part of the work with clear recommendations for implementation. This will include sizing and selection of major equipment components.
  - c. Preliminary Layout and Configuration – Based on interactive feedback on PBCWUD requirements and preferences a preliminary layout of the site, equipment, piping, and appurtenances will be developed for review. This concept will be developed to a point required to communicate concepts, potential issues, improvement opportunities, and to receive PBCWUD feedback prior to detailed design.
  - d. Permitting and Code Review – An initial review of the site changes and disciplines of work anticipated along with the potential regulatory agency and permit requirements.
  - e. Preliminary Opinion of Probable Construction Cost (OPCC) (30 percent) – The Preliminary OPCC included in the Improvement Recommendations Analysis Memorandum dated May 31, 2022, will be updated to reflect current market conditions. The revised estimate will align with an American Association of Cost Engineers (AACE) Class 5 cost estimate, consistent with the current level of project definition and its associated expected accuracy range.
  - f. Construction Sequence and Schedule (30 percent) – A preliminary estimation of the sequence of work required to minimize bypass pumping requirements while also replacing the valves at LS 5229, demolishing the existing pump station, restoring the site, and commissioning the final work.
  - g. Technical Specification Table of Contents – A listing of the anticipated technical specifications that will be required for the procurement of construction.
3. Conceptual Design Drawings (30 percent) - An initial layout of the site, electrical arrangement, piping, hoisting equipment, and one-line electrical drawings will be developed and provided along with the basis of the design memorandum. Initial recommendations for flow management or bypassing during construction will also be provided. Base civil drawings of existing conditions for the project sites utilizing Computer-Aided Design (CAD) standards will be created. The overall topographic survey developed by Brown & Phillips, Inc. will serve as the basis for base civil drawings development.
4. Review Meeting and Decision Log (30 percent) - Materials will be provided in advance of all review meetings with meeting outcomes documented in meeting minutes and as part of a decision log.
5. Deliverables - Basis of Design Memorandum and Conceptual (30 percent) Design - Deliverables will be provided as outlined below and discussed; as part of a formal design review meeting with PBCWUD.
- a. Hydraulic Analysis Technical Memo (Digital and Printed)
  - b. Basis of Design Memorandum (Digital and Printed)
    - i. Permitting and Code Review
    - ii. Preliminary OPCC
    - iii. Construction Sequence and Schedule
    - iv. Technical Specification Table of Contents

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- c. Conceptual (30 percent) Design Drawings (Digital and Printed)
- d. Review Meeting Materials, Meeting Minutes, and Decision Log (Digital and Printed)

### **Subtask 3.2 - Intermediate (60 percent) Design**

The following elements will be further developed from the previous Conceptual (30 percent) Design phase of work and updated to reflect the additional detail of design.

1. Construction Drawings (60 percent) – Will include some level of detail for all of the anticipated design drawings. Civil, piping, mechanical, process control, and structural will be advanced to a pre-final stage of work. Electrical will be at an early draft stage of work based on the support of the pumping system requirements. A final design concept for flow management or bypassing during construction will also be provided.
2. Construction Technical Specifications (60 percent) – An initial draft of all technical specifications will be provided. Specific equipment details and requirements for the sizing of components may be excluded from the technical specifications pending PBCWUD concurrence with design elements. Procurement-specific specifications will not be included in this phase of work.
3. OPCC, Construction Sequence, and Schedule (60 percent) – Developed to an AACE Class 4 expected accuracy range based on the level of the project definition.
4. Permit Register (60 percent) – Updated to reflect the anticipated regulatory agency permit requirements based on the site changes and disciplines of work involved in the project. Will also include known points of contact, permit forms for completion, level of design required for submittal, required supporting information, and anticipated duration and sequence for obtaining approval of each permit.
5. Review Meeting and Decision Log (60 percent) - Materials will be provided in advance of all review meetings with meeting outcomes documented in meeting minutes and as part of a decision log.
6. Deliverables - Intermediate (60 percent) Submittal
  - a. Design Drawings (Digital and Printed)
  - b. Technical Specifications (Digital and Printed)
  - c. OPCC, Construction Sequence and Schedule (Digital and Printed)
  - d. Permit Register (Digital and Printed)
  - e. Review Meeting Materials, Meeting Minutes, and Decision Log (Digital and Printed)

### **Subtask 3.3 – Pre-Final (90 percent) Design**

The following elements will be further developed from the previous Intermediate (60 percent) design phase of work and updated to reflect the additional detail of design.

1. Design Drawings (90 percent) – All design drawings shall be updated with a consistent level of detail to reflect a pre-final condition that is comprehensive of the work to be completed.
2. Construction Procurement and Technical Specifications (90 percent) - All procurement and technical specifications documents shall be updated with a consistent level of detail to reflect a pre-final condition that is comprehensive of the work to be completed. This includes bid advertisement, description of work, and technical criteria reflective of the equipment, systems, and elements of work.
3. OPCC, Construction Sequence, and Schedule (90 percent) – Developed an updated OPCC reflective of the level of the project definition.
4. Permit Register (90 percent) – Update the previous register with the status of any permitting activities that are currently underway and planned.

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5. Review Meeting and Decision Log (90 percent) - Materials will be provided in advance of all review meetings with meeting outcomes documented in meeting minutes and as part of a decision log.
6. Deliverables - Pre-Final (90 percent) Design
  - a. Design Drawings (Digital and Printed)
  - b. Construction Procurement and Technical Specifications (Digital and Printed)
  - c. OPCC, Construction Sequence and Schedule (Digital and Printed)
  - d. Permit Register (Digital and Printed)
  - e. Review Meeting Materials, Meeting Minutes, and Decision Log (Digital and Printed)

### **Subtask 3.5 - Final (100 percent) Design**

The following elements will be further developed from the previous Pre-Final (90 percent) design phase of work and updated to reflect the additional detail of design and review comments received from permitting agencies.

1. Construction Drawings – Final bid-ready construction drawings that incorporate all of the PBCWUD review comments and requirements and permitting agencies comments.
2. Construction Procurement and Technical Specifications - Final bid-ready Construction Procurement and Technical Specifications that incorporate all of the PBCWUD and PBC Procurement review comments and requirements.
3. OPCC, Construction Sequence, and Schedule – Final revised OPCC reflective of the level of the project definition. The sequence of work and schedule will be reflective of the actual anticipated construction work.
4. Permit Register – Final approved pre-construction permits and supporting documents. Permits that are anticipated to be obtained during construction will be identified.
5. 90 percent Review Meeting and Decision Log – Materials will be provided in advance of all review meetings with meeting outcomes documented in meeting minutes and as part of a decision log.

### **Deliverables - Final (100 percent) Design**

1. Construction Drawings (Digital and Printed)
2. Construction Procurement and Technical Specifications (Digital and Printed)
3. OPCC, Construction Sequence and Schedule (Digital and Printed)
4. Permit Register (Digital and Printed)
5. 100 percent submittal review meeting materials, meeting minutes, and Decision Log (Digital and Printed)

### **Task 4.0 - Permitting Submittals and Coordination with Regulatory Agencies**

Permitting activities will extend across multiple phases of design development. The permitting process will begin after the 90-percent design submittal and will include a pre-application meeting with the permitting agencies, followed by submission of the permitting package. These permitting tasks will proceed independently and in parallel with the development of the construction documents that will support the permitting process.

1. Permit Register – The Consultant will continue to maintain and update the register of known permits and agency approvals required for the project.
2. Preparation of Permit Packages – For all permits that can be obtained prior to the start of construction, the required documentation will be prepared and submitted for agency approval. The anticipated permits for this project include:

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- Palm Beach County Planning & Zoning & Building – Building Division – Building Permit
  - Palm Beach County Engineering and Public Works-Land Development Division – Utility (UT) Permit
  - Palm Beach County Engineering and Public Works-Land Development Division – Right-of-Way (ROW) Permit
  - Florida Department of Environmental Protection (FDEP) – Sewer Extension Permit
  - Palm Beach County Zoning Division – Landscape Section - Tree Removal/Preservation Permits
3. Pre-application meeting - The Consultant will meet with regulatory agencies, as needed, to review project documents and incorporate revisions to facilitate timely approvals .
  4. Dry run submittal – To minimize the potential for permitting delays in the construction phase, drawings will be submitted to the Palm Beach County Planning & Zoning & Building – Building Division during the design process, as a “dry run” submittal for the building permit. Review comments will be reviewed and incorporated into the construction drawings.
  5. Approved Permits – All approved permits and relevant permitting correspondence will be provided to PBCWUD and included in the Construction Documents.
  6. Deliverables - Permitting
    - a. Draft Permit Applications and Supporting Documents (Digital and Printed)
    - b. Approved Final Permits and Supporting Documents (Digital and Printed)
    - c. Updated Permit Register (Digital and Printed)

### **TASK 5 - Bid Phase Services**

Engineering support during the public bidding for procurement of construction services is anticipated to include the following work elements:

#### **Subtask 5.1 - Bid Advertisement and Procurement Package**

Print digitally signed and sealed construction drawings, procurement documents, and technical specifications needed to bid the work. Prepare a narrative description of the work and review the advertisement for bid. Review procurement documents produced by PBCWUD for consistency with technical specifications and construction drawings.

#### **Subtask 5.2 - Pre-Bid Meeting**

Prepare presentation materials and present to the respective bidders an overview of the project requirements and anticipated sequence of work. Attend a site visit with prospective bidders.

#### **Subtask 5.3 - Response to Bidder Questions**

Respond to bidder questions, if needed, to clarify the intent of the bid documents. As required, addenda will be prepared and issued to PBCWUD for distribution to bidders. A total of three (3) addenda is assumed.

#### **Subtask 5.4 - Bid Tabulation and Recommendation**

A tabulation of received bids will be performed along with an evaluation of bid submittals to identify any bid deficiencies for PBCWUD’s use.

#### **Subtask 5.5 - Conformed Contract Documents**

CONSULTANT shall prepare a conformed set of contract documents for use by the Contractor during construction.

#### **Deliverables - Bid Phase Services**

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1. Signed and Sealed Contract Documents
2. Narrative Description of the Work
3. Pre-Bid Meeting Presentation Materials
4. Tabulation of Bids and Recommendation
5. Conformed Contract Documents

**BUDGET SUMMARY – DRAWING LIST**

<b>SHEET</b>	<b>DWG. NO.</b>	<b>TITLE</b>
<b>GENERAL</b>		
<b>1</b>	G-01	Title Sheet and Location Map
<b>2</b>	G-02	Index of Drawings and Digital Seals
<b>3</b>	G-03	LS5229 Survey
<b>4</b>	G-04	LS5236 Survey
<b>5</b>	G-05	LS5341 Survey
<b>CIVIL</b>		
<b>6</b>	C-01	LS5229 Existing Site Plan - Survey
<b>7</b>	C-02	LS5229 Existing Site Demolition Plan
<b>8</b>	C-03	LS5229 Proposed Site and Grading Plan
<b>9</b>	C-04	LS5229 Proposed Site Piping Plan
<b>10</b>	C-05	LS5241 Existing Site Plan - Survey
<b>11</b>	C-06	LS5241 Existing Site Demolition Plan
<b>12</b>	C-07	LS5241 Proposed Site and Grading Plan
<b>13</b>	C-08	LS5241 Proposed Site Piping Plan
<b>14</b>	C-09	LS5236 Existing Site Plan – Survey
<b>15</b>	C-10	LS5236 Existing Site Demolition Plan
<b>16</b>	C-11	LS5236 Proposed Site and Grading Plan
<b>17</b>	C-12	LS5236 Proposed Site Piping Plan

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18	C-13	Civil Details
19	C-14	Civil Details
<b>MECHANICAL</b>		
20	M-01	Mechanical Notes and Legend
21	M-02	LS5229 Existing Mechanical and Piping Plans
22	M-03	LS5229 Existing Mechanical and Piping Sections
23	M-04	LS5229 Modification Mechanical and Piping Plans
24	M-05	LS5229 Modification Mechanical and Piping Sections
25	M-06	LS5229 Integral Bypass Plan, Section and Details
26	M-07	LS5229 Seal Water System and Details
27	M-08	LS5229 Mechanical, Piping and Valve Details
28	M-09	LS5236 Mechanical Demolition Plans
29	M-10	LS5236 Mechanical Demolition Sections
30	M-11	LS5236 Odor Control System Plan and Details
31	M-12	LS5241 Mechanical Demolition Plans
32	M-13	LS5241 Mechanical Demolition Sections
33	M-14	LS5241 Bypass Pump Connection Plan and Details
34	M-15	Mechanical Equipment and Piping Details
<b>ARCHITECTURAL</b>		
35	A-01	Architectural Notes and Legend
36	A-02	LS5229 Architectural Demolition Plans
37	A-03	LS5229 Architectural Site Plans
38	A-04	LS5229 Architectural Sections
39	A-05	Architectural Details
<b>STRUCTURAL</b>		
40	S-01	Structural Notes and Legend
41	S-02	LS5229 Lower Level Catwalk Structural Plan and Sections

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42	S-03	LS5229 Structure Sections
43	S-04	LS5229 Structural Details
44	S-05	LS5229 Bypass Vault Structure Plans and Sections
45	S-06	LS5236 Demolition Plans
46	S-07	LS5236 Demolition Sections
47	S-08	LS5241 Demolition Plans
48	S-09	LS5241 Demolition Sections
49	S-10	LS5241 Bypass Structural Plans and Section
50	S-11	LS5241 Monorail Equipment Plan and Details
51	S-12	Generator and Equipment Pad Plans and Sections
52	S-13	Structural Details 1
53	S-14	Structural Details 2
<b>ELECTRICAL</b>		
54	E-01	Electrical Notes and Legend
55	E-02	LS5229 Overall One-Line Diagram Modifications
56	E-03	LS5229 Electrical Site Plan Modifications
57	E-04	LS5229 Electrical Equipment Layout Plan
58	E-05	LS5229 Lighting Plans
59	E-06	LS5229 CCTV and Security Plans
60	E-07	LS5229 Instrumentation One-Line Diagrams
61	E-08	LS5236 Electrical Demolition Plan
62	E-09	LS5236 Overall One-Line Diagram Modifications
63	E-10	LS5236 Electrical Site Plan Modifications
64	E-11	LS5236 Lighting Plans
65	E-12	LS5236 CCTV and Security Plans
66	E-13	LS5236 Instrumentation One-Line Diagrams
67	E-14	LS5241 Electrical Demolition Plan

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<b>68</b>	E-15	LS5241 Overall One-Line Diagram Modifications
<b>69</b>	E-16	LS5241 Electrical Site Plan Modifications
<b>70</b>	E-17	LS5241 Lighting Plans
<b>71</b>	E-18	LS5241 CCTV and Security Plans
<b>72</b>	E-19	LS5241 Instrumentation One-Line Diagrams
<b>73</b>	E-20	Electrical Panel Schedule
<b>74</b>	E-21	Electrical Schematics
<b>75</b>	E-22	Electrical Details
<b>76</b>	E-23	Generator Wiring Diagram
<b>INSTRUMENTATION</b>		
<b>77</b>	Y-1	Piping and Instrumentation Diagram Symbols & Legend
<b>78</b>	Y-2	LS5229 Pump Station P&ID - 1
<b>79</b>	Y-3	LS5229 Pump Station P&ID - 2
<b>80</b>	Y-4	Instrumentation Details - 1
<b>81</b>	Y-5	Instrumentation Details - 2

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## ATTACHMENT B

### SUMMARY AND STATUS OF CONSULTANT SERVICES AUTHORIZATIONS

Auth. No.	PBCWUD Project No.	Title	Status	Project Total Amount	SBE Total Amount	SBE Participation %	Approved	
							By	Date
1	21-020	Lift Station 5133 Conversion to Repump	Approved	\$251,732.16	\$60,608.86	24.07%	BCC	4/20/21
1.1	21-020	Lift Station 5133 Conversion to Repump	Approved	\$58,401.47	\$6,633.00	11.35%	CRC	1/4/23
2	21-062	Lift Station 5015 Conversion to Repump	Approved	\$321,827.36	\$103,982.54	32.31%	BCC	9/14/21
2.1	21-062	Lift Station 5015 Conversion to Repump	Approved	\$131,900.06	\$7,245.00	5.49%	BCC	4/18/23
2.2	21-062	Lift Station 5015 Conversion to Repump	Approved	\$44,764.00	\$39,744.00	88.79	CRC	5/15/25
3	21-064	Improvements to Lift Stations 5229, 5236 and 5241	Approved	\$89,948.70	\$18,245.00	20.28%	CRC	3/23/22
4	21-064	Improvements to Lift Stations 5229, 5236 and 5241	Pending	\$787,707.01	\$189,991.87	24.12%	BCC	Pending
5	21-020	Engineering Services During Construction for Lift Station 5133	Approved	\$320,421.50	\$30,287.00	9.45%	BCC	2/7/23
5.1	21-020	Engineering Services During Construction for Lift Station 5133	Pending	\$23,364.00	\$16,514.00	70.68%		Pending
6	21-062	Engineering Services During Construction for Lift Station 5015	Approved	\$389,422.53	\$273,689.00	70.28%	BCC	12/10/24

**ATTACHMENT C**

**OEBO SCHEDULE 1**

Office of Equal Business Opportunity Compliance Programs

**OEBO SCHEDULE 1\***

SOLICITATION/PROJECT/BID NAME: Improvements to Lift Stations 5229, 5239 and 5241 SOLICITATION/PROJECT/BID NO.: 21-064

SOLICITATION OPENING/SUBMITTAL DATE: October 7, 2020 COUNTY DEPARTMENT: Palm Beach County Water Utilities Department

**Section A** PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME CONTRACTOR/CONSULTANT\* ON THE PROJECT:

NAME OF PRIME RESPONDENT/BIDDER: AECOM Technical Services, Inc. ADDRESS: 1400 Centrepark Blvd., Suite 860  
West Palm Beach, FL 33401

CONTACT PERSON: Karen Brandon, PE PHONE NO.: 561-719-4308 E-MAIL: karen.brandon@aecom.com

PRIME'S DOLLAR AMOUNT OR PERCENTAGE OF WORK: \$589,301.00 Non-SBE  SBE   
 SBE Prime's must include their percentage or dollar amount in the Total Participation line under section B.

**Section B** PLEASE LIST THE DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SUBCONTRACTORS/SUBCONSULTANTS ON THE PROJECT BELOW:

Subcontractor/Sub consultant Name	(Check all Applicable Categories)		DOLLAR AMOUNT OR PERCENTAGE OF WORK
	Non-SBE	SBE	
1. Brown & Phillips, Inc.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$ 61,044.67
2. C & W Engineering, Inc.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$128,947.20
3. RADISE International, L.C.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	\$ 8,414.14
4.	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.	<input type="checkbox"/>	<input type="checkbox"/>	_____

(Please use additional sheets if necessary)

Total \$198,406.01

Total Bid/Offer Price \$ 787,707.01 Total Certified SBE Participation \$ \$189,991.87

I hereby certify that the above information is accurate to the best of my knowledge: Karen Brandon  Associate Vice President  
 Name & Authorized Signature Title

- Note:**
- The amount listed on this form for a Subcontractor/sub consultant must be supported by price or percentage listed on the properly executed Schedule 2 or attached signed proposal.
  - Only those firms certified by Palm Beach County at the time of solicitation due date are eligible to meet the established OEBO Affirmative Procurement Initiative (API). Please check the applicable box and list the dollar amount or percentage under the appropriate demographic category.
  - Modification of this form is not permitted and will be rejected upon submittal.
  - If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation.

\*Revised 6.5.2025 pursuant to Emergency Ordinance 2025-014, approved on June 3, 2025

**ATTACHMENT C**

**OEBO SCHEDULE 2**

Office of Equal Business Opportunity Compliance Programs

REVISED 12-03-25

**OEBO LETTER OF INTENT – SCHEDULE 2\***

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. All Subcontractors/subconsultants, including any tiered Subcontractors/subconsultants, must properly execute this document. If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: PBCWUD 21-064

SOLICITATION/PROJECT NAME: Improvements to Lift Station 5229, 5236 and 5241

Prime Contractor: AECOM Technical Services, Inc. Subcontractor: Brown & Phillips, Inc.

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

SBE    Non-SBE    Supplier

Date of Palm Beach County Certification (if applicable): 1/31/25-1/30/28

**SBE PARTICIPATION** – SBE Primes must document all work to be performed by their own work force on this form. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. When applicable, identify the line item(s) associated with the service/product being supplied. SBE credit will only be given for the areas in which the SBE is certified. A detailed quote/proposal may be attached to a properly executed Schedule 2 for additional information.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
5.01 & 5.02	Topography-Land Surveying; Topography-Engineering Survey				\$61,044.67

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$61,044.67

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

\_\_\_\_\_ Price or Percentage: \_\_\_\_\_

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

AECOM Technical Services, Inc.  
 Print Name of Prime  
 By: *Karen Brandon*  
 Authorized Signature  
Karen Brandon, PE  
 Print Name  
Associate Vice President/Authorized Signatory  
 Title  
 Date: 1/29/2026

Brown & Phillips, Inc.  
 Print Name of Subcontractor/subconsultant  
 By: *John E. Phillips III*  
 Authorized Signature  
John E. Phillips, III  
 Print Name  
President  
 Title  
 Date: January 29, 2026

\*Revised 6.5.2025 pursuant to Emergency Ordinance 2025-014, approved on June 3, 2025

**OEBO LETTER OF INTENT – SCHEDULE 2\***

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. All Subcontractors/subconsultants, including any tiered Subcontractors/ subconsultants, must properly execute this document. If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: PBCWUD No. 21-064

SOLICITATION/PROJECT NAME: Improvements to Lift Station 5229, 5236 and 5241

Prime Contractor: AECOM Technical Services, Inc. Subcontractor: C & W Engineering, Inc.

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

SBE    Non-SBE    Supplier

Date of Palm Beach County Certification (if applicable): exp. 1/8/2029

**SBE PARTICIPATION** – SBE Primes must document all work to be performed by their own work force on this form. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. When applicable, identify the line item(s) associated with the service/product being supplied. SBE credit will only be given for the areas in which the SBE is certified. A detailed quote/proposal may be attached to a properly executed Schedule 2 for additional information.

Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
8.06 & 9.03	Mechanical & Electrical Engineering				\$128,947.20

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$128,947.20

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

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

AECOM Technical Services, Inc.

Print Name of Prime

By: *Karen Brandon*  
Authorized Signature

Karen Brandon, PE  
Print Name

Associate Vice President/Authorized Signatory  
Title

Date: 1/29/2026

C & W Engineering, Inc.

Print Name of Subcontractor/subconsultant

By: *Michael Guida*  
Authorized Signature

Michael Guida, P.E.  
Print Name

President  
Title

Date: 1/29/2026

**OEBO LETTER OF INTENT – SCHEDULE 2\***

A completed Schedule 2 is a binding document between the Prime Contractor/consultant and a Subcontractor/subconsultant (for any tier) and should be treated as such. All Subcontractors/subconsultants, including any tiered Subcontractors/ subconsultants, must properly execute this document. If a Mandatory API goal applies, failure to submit a properly executed Schedule 2 will result in a determination of non-responsiveness to the solicitation. Each properly executed Schedule 2 must be submitted with the bid/proposal.

SOLICITATION/PROJECT NUMBER: PBCWUD No. 21-064

SOLICITATION/PROJECT NAME: Improvements to Lift Station 5229, 5236 and 5241

Prime Contractor: AECOM Technical Services, Inc. Subcontractor: RADISE International, L.C.

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

SBE  Non-SBE  Supplier Date of Palm Beach County Certification (if applicable): \_\_\_\_\_

**SBE PARTICIPATION** – SBE Primes must document all work to be performed by their own work force on this form. Specify in detail, the scope of work to be performed or items supplied with the dollar amount and/or percentage for each work item. When applicable, identify the line item(s) associated with the service/product being supplied. SBE credit will only be given for the areas in which the SBE is certified. A detailed quote/proposal may be attached to a properly executed Schedule 2 for additional information.

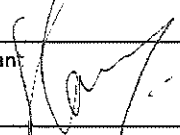
Line Item	Item Description	Unit Price	Quantity/ Units	Contingencies/ Allowances	Total Price/Percentage
6.01, 6.06	Geotechnical Engineering Services				\$8,414.14

The undersigned Subcontractor/subconsultant is prepared to self-perform the above-described work in conjunction with the aforementioned project at the following total price or percentage: \$8,414.14

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

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

AECOM Technical Services, Inc.  
 Print Name of Prime  
 By:   
 Authorized Signature  
Karen Brandon, PE  
 Print Name  
Associate Vice President/Authorized Signatory  
 Title  
 Date: 01/29/2026

RADISE International, L.C.  
 Print Name of Subcontractor/subconsultant  
 By:   
 Authorized Signature  
Panneer Shanmugam, PE  
 Print Name  
President  
 Title  
 Date: 01/29/2026

\*Revised 6.5.2025 pursuant to Emergency Ordinance 2025-014, approved on June 3, 2025

# ATTACHMENT D

## PROJECT SCHEDULE

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

Engineering Services

Completion Date from Notice to Proceed

(Calendar Days)

Task 1 - Project Initiation and Management	390
Task 2 - Existing Conditions and Field Investigations	60
Task 3 - Design Delivery and Permitting	
Subtask 3.1 - Basis of Design Memorandum and Conceptual (30 percent) Design	120
Subtask 3.2 - Intermediate (60 percent) Design	180
Subtask 3.3 - Pre-Final (90 percent) Design	240
Subtask 3.4 - Final (100 percent) Design	330
Task 4 - Permitting Submittals and Coordination with Regulatory Agencies	300
Task 5 - Bid Phase Services	390

Note: PBCWUD to provide review comments within 21 days of submittals

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**ATTACHMENT E  
BUDGET SUMMARY**

Palm Beach County Water Utilities Department  
 Contract for Consulting/Professional Services (MASTER LIFT STATION AND REPUMP IMPROVEMENTS)  
 Resolution No. R2021-0508 Contract Dated April 20, 2021  
 Consultant Services Authorization No.: 4  
 Consultant: AECOM Technical Services, Inc.  
 Project Title: Improvements to Lift Stations 5229, 5236 and 5241  
 PBCWUD Project No.: 21-064

226.3312

BUDGET SUMMARY FOR FIRM															PRIME TOTALS			
Task Number	Task Description	Labor Classification and Hourly Rate												Total Hours	Total Labor	Total Expenses	Total Labor and Expenses	
		Officer / Principal	Senior Technical Expert	Technical Specialist	Senior Project Manager	Senior Engineer / Tech. Discipline Leader	Engineer / Technologist 4	Engineer / Technologist 3	Engineer / Technologist 2	Engineer / Technologist 1	Designer 3	Document Control Specialist	Project Administration					
	Raw Rate RANGE frm MASTER EXHIBIT C	\$90-\$110	\$90-\$105	\$82-\$95	\$71-\$81	\$77.5-\$87.5	\$53-\$63	\$41-\$52	\$32-\$41	\$26-\$32.5	\$45-\$52	\$33-\$38	\$27-\$35					
	Raw Rate >	\$ 98.53	\$ 94.85	\$ 90.07	\$ 77.21	\$ 80.88	\$ 56.25	\$ 48.16	\$ 37.87	\$ 29.41	\$ 48.90	\$ 34.93	\$ 29.78					
	Multiplier >	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72					
	Bill Rate >	\$ 268.00	\$ 258.00	\$ 245.00	\$ 210.00	\$ 220.00	\$ 153.00	\$ 131.00	\$ 103.00	\$ 80.00	\$ 133.00	\$ 95.00	\$ 81.00					
<b>TASK 1</b>	<b>Project Initiation and Management</b>																	
	Subtask 1.1 - Project Planning and Project Initiation Meeting	4	0	4	4	24	8	0	0			8	32	84	\$ 12,748.00	\$ -	\$ 12,748.00	
	Subtask 1.2 - Project Reporting, Coordination, and Communications		0		40	40			0				80	160	\$ 23,680.00	\$ -	\$ 23,680.00	
	Subtask 1.3 - Quality Control	8	0	8	40	41	6					0	6	109	\$ 22,928.00	\$ -	\$ 22,928.00	
	Reimbursable															\$ 210.00	\$ 210.00	
	Task 1 - Subtotal	12	0	12	84	105	14	0	0	0	0	8	118	353	\$ 59,356.00	\$ 210.00	\$ 59,566.00	
<b>TASK 2</b>	<b>Existing Conditions and Field Investigations</b>																	
	Subtask 2.1 - Existing Information and Engineering Field Investigations		0	0	10	8	6	0	0		0	6	0	30	\$ 5,348.00	\$ -	\$ 5,348.00	
	Subtask 2.2 - Topographic Survey and Subsurface Utility Investigation, and Tree Survey		0	0		8		0				4	4	16	\$ 2,464.00	\$ -	\$ 2,464.00	
	Subtask 2.3 - Geotechnical Investigation and Report				4	8						4	4	20	\$ 3,304.00	\$ -	\$ 3,304.00	
	Reimbursable															\$ 210.00	\$ 210.00	
	Task 2 - Subtotal	0	0	0	14	24	6	0	0	0	0	14	8	66	\$ 11,116.00	\$ 210.00	\$ 11,326.00	
<b>TASK 3</b>	<b>Design Delivery</b>																	
	Subtask 3.1 - Basis of Design Memorandum and Conceptual (30 percent) Design	58	0	22	201	31	2	20	400	700	80	4	8	1026	\$ 141,758.00	\$ -	\$ 141,758.00	
	Subtask 3.2 - Intermediate (60 percent) Design	28	0	20	119	20	4	40	240	81	320	10		882	\$ 122,356.00	\$ -	\$ 122,356.00	
	Subtask 3.3 - Pre-Final (90 percent) Design	40	0	10	120	24	7	30	180	80	280			771	\$ 110,831.00	\$ -	\$ 110,831.00	
	Subtask 3.4 - Final (100 percent) Design	32	0	8	96	44		24	80	42	120			446	\$ 71,080.00	\$ -	\$ 71,080.00	
	Reimbursable															\$ 700.00	\$ 700.00	
	Task 3 - Subtotal	158	0	60	536	119	13	114	900	403	800	14	8	3125	\$ 446,025.00	\$ 700.00	\$ 446,725.00	
<b>TASK 4</b>	<b>Permitting Services</b>																	
	Permitting Submittals and Coordination with Regulatory Agencies	24		4	46	20	36	12		80	20	10	0	252	\$ 38,562.00	\$ -	\$ 38,562.00	
	Reimbursable															\$ 420.00	\$ 420.00	
	Task 4 - Subtotal													252	\$ 38,562.00	\$ 420.00	\$ 38,982.00	
<b>TASK 5</b>	<b>Bid Phase Services</b>																	
	Subtask 5.1-5 Bid Phase Services	14	0	6	36	30	24	6	84	0				200	\$ 32,492.00	\$ -	\$ 32,492.00	
	Reimbursable															\$ 210.00	\$ 210.00	
	Task 5 - Subtotal	14	0	6	36	30	24	6	84	0	0	0	0	200	\$ 32,492.00	\$ 210.00	\$ 32,702.00	
	<b>Labor Subtotal Hours</b>	208	0	82	716	298	93	132	984	483	820	36	134	3996				
	<b>Labor Raw Costs</b>	\$ 20,494.12	\$ -	\$ 7,386.03	\$ 55,279.41	\$ 24,102.04	\$ 5,231.25	\$ 6,357.35	\$ 37,261.76	\$ 14,205.68	\$ 40,095.59	\$ 1,257.25	\$ 3,990.44		\$ 215,662.13			
	<b>Labor Subtotal (Bill Rate * Labor Subtotal Hours)</b>	\$ 55,744.00	\$ -	\$ 20,090.00	\$ 150,360.00	\$ 65,560.00	\$ 14,228.00	\$ 17,292.00	\$ 101,352.00	\$ 38,640.00	\$ 109,060.00	\$ 3,420.00	\$ 10,854.00		\$ 586,601.00			
	<b>PROJECT TOTAL</b>													3996	\$ 587,551.00	\$ 1,750.00	\$ 589,301.00	

**Estimate of Work Effort and Cost  
Prime Consultant**

**BUDGET SUMMARY**

<b>BUDGET SUMMARY</b>				
<b>Palm Beach County Water Utilities Department</b>				
<b>Contract for Consulting/Professional Services (MASTER LIFT STATION AND REPUMP IMPROVEMENTS)</b>				
<b>Resolution No. R2021-0508 Contract Dated April 20, 2021</b>				
<b>Consultant Services Authorization No.: 4</b>				
<b>Consultant: AECOM Technical Services, Inc.</b>				
<b>Project Title: Improvements to Lift Stations 5229, 5236 and 5241</b>				
<b>PBCWUD Project No.: 21-064</b>				
<b>FIRM NAME Reimbursables</b>		<b>Projected Quantity</b>	<b>Unit Cost</b>	<b>Project Cost</b>
<i>Task 1 - Project Initiation and Management</i>	Mileage	300	\$0.700	\$210.00
	8.5x11 Print		\$0.25	\$0.00
<i>Task 2 - Existing Conditions and Field Investigations</i>	Mileage	300	\$0.700	\$210.00
	8.5x11 Print		\$0.25	\$0.00
<i>Task 3 - Design Delivery</i>	Mileage	1000	\$0.700	\$700.00
	Bond Copies/Black line/Blueprints (24x36)		\$1.00	\$0.00
	Bond Copies/Black line/Blueprints (11x17)		\$0.50	\$0.00
	8.5x11 Print		\$0.25	\$0.00
	CAD Drawing Files/Digital Transmission		\$20.00	\$0.00
<i>Task 4 - Permitting</i>	Mileage	600	\$0.700	\$420.00
<i>Task 5 - Bid Phase Services</i>	Mileage	300	\$0.700	\$210.00
	Bond Copies/Black line/Blueprints (24x36)		\$1.00	\$0.00
	Bond Copies/Black line/Blueprints (11x17)		\$0.50	\$0.00
	8.5x11 Print		\$0.25	\$0.00
	CAD Drawing Files/Digital Transmission		\$20.00	\$0.00
<b>PROJECT TOTAL</b>				<b>\$1,750.00</b>

**ATTACHMENT E  
BUDGET SUMMARY**

Palm Beach County Water Utilities Department  
 Contract for Consulting/Professional Services (MASTER LIFT STATION AND REPUMP IMPROVEMENTS)  
 Resolution No. R2021-0508 Contract Dated April 20, 2021  
 Consultant Services Authorization No.: 4  
 Consultant: AECOM Technical Services, Inc.  
 Project Title: Improvements to Lift Stations 5229, 5236 and 5241  
 PBCWUD Project No.: 21-064

**BUDGET SUMMARY**

Task Number	Task Description	PRIME (AECOM)	SUB1 (Mock Roos)	SUB2 (BFA)	SUB3 (Brown Phillips)	SUB4 (C&W)	SUB5 (Radise)	SUB6 (Csolutions)	TOTAL
		Non-SBE	SBE	SBE	SBE	SBE	Non-SBE	SBE	
	<b>OEBO APPROVED AWARDED CATEGORY</b>								
TASK 1	Project Initiation and Management								
	<i>Subtask 1.1 - Project Planning and Project Initiation Meeting</i>	\$ 12,748.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,748.00
	<i>Subtask 1.2 - Project Reporting, Coordination, and Communications</i>	\$ 23,680.00	\$ -	\$ -	\$ -	\$ 19,152.00	\$ -	\$ -	\$ 42,832.00
	<i>Subtask 1.3 - Quality Control</i>	\$ 22,928.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,928.00
	<i>Reimbursable</i>	\$ 210.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 210.00
	<b>Task 1 - Subtotal</b>	<b>\$ 59,566.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 19,152.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 78,718.00</b>
TASK 2	Existing Conditions and Field Investigations								
	<i>Subtask 2.1 - Existing Information and Engineering Field Investigations</i>	\$ 5,348.00	\$ -	\$ -	\$ -	\$ 10,454.40	\$ -	\$ -	\$ 15,802.40
	<i>Subtask 2.2 - Topographic Survey and Subsurface Utility Investigation, and Tree Survey and Arborist report</i>	\$ 2,464.00	\$ -	\$ -	\$ 61,044.67	\$ -	\$ -	\$ -	\$ 63,508.67
	<i>Subtask 2.3 - Geotechnical Investigation and Report</i>	\$ 3,304.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,304.00
	<i>Reimbursable</i>	\$ 210.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 210.00
	<b>Task 2 - Subtotal</b>	<b>\$ 11,326.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 61,044.67</b>	<b>\$ 10,454.40</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 82,825.07</b>
	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Task Number	Task Description	PRIME (AECOM)	SUB1 (Mock Roos)	SUB2 (BFA)	SUB3 (Brown Phillips)	SUB4 (C&W)	SUB5 (Radise)	SUB6 (Csolutions)	TOTAL
TASK 3	Design Delivery	\$ -							
	<i>Subtask 3.1 -Basis of Design Memorandum and Conceptual (30 percent) Design</i>	\$ 141,758.00	\$ -	\$ -	\$ -	\$ 31,224.00	\$ -	\$ -	\$ 172,982.00
	<i>Subtask 3.2 - Intermediate (60 percent) Design</i>	\$ 122,356.00	\$ -	\$ -	\$ -	\$ 27,782.40	\$ -	\$ -	\$ 150,138.40
	<i>Subtask 3.3 - Pre-Final (90 percent) Design</i>	\$ 110,831.00	\$ -	\$ -	\$ -	\$ 17,443.20	\$ -	\$ -	\$ 128,274.20
	<i>Subtask 3.4 - Final (100 percent) Design</i>	\$ 71,080.00	\$ -	\$ -	\$ -	\$ 5,385.60	\$ -	\$ -	\$ 76,465.60
	<i>Reimbursable</i>	\$ 700.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 700.00
	<b>Task 3 - Subtotal</b>	<b>\$ 446,725.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 81,835.20</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 528,560.20</b>
TASK 4	Permitting Services								
	<i>Permitting Submittals and Coordination with Regulatory Agencies</i>	\$ 38,562.00	\$ -	\$ -	\$ -	\$ 9,902.40	\$ -	\$ -	\$ 48,464.40
	<i>Reimbursable</i>	\$ 420.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 420.00
		<b>\$ 38,982.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 9,902.40</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 48,884.40</b>
TASK 5	Bid Phase Services								
	<i>Subtask 5.1-5.5 Bid Phase Services</i>	\$ 32,492.00	\$ -	\$ -	\$ -	\$ 7,603.20	\$ 8,414.14	\$ -	\$ 48,509.34
	<i>Reimbursable</i>	\$ 210.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 210.00
	<b>Task 4 - Subtotal</b>	<b>\$ 32,702.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 7,603.20</b>	<b>\$ 8,414.14</b>	<b>\$ -</b>	<b>\$ 48,719.34</b>
	<b>TOTAL PROJECT</b>	<b>\$ 589,301.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 61,044.67</b>	<b>\$ 128,947.20</b>	<b>\$ 8,414.14</b>	<b>\$ -</b>	<b>\$ 787,707.01</b>
	Percentage	74.812%	0.000%	0.000%	7.750%	16.370%	1.068%	0.000%	
				PRIME	\$ 589,301.00	74.81%			
				SBE	\$ 189,991.87	24.12%	SUB3, SUB4		
	<b>Approximate Cost per Lift Station:</b>	<b>LS 5229</b>	<b>LS 5236</b>	<b>LS 5241</b>					
		\$ 263,935.74	\$ 173,380.98	\$ 350,390.28					

**ATTACHMENT E  
BUDGET SUMMARY**

Palm Beach County Water Utilities Department  
 Contract for Consulting/Professional Services (*MASTER LIFT STATION AND REPUMP IMPROVEMENTS*)  
 Resolution No. R2021-0508 Contract Dated April 20, 2021  
 Consultant Services Authorization No.: 4  
 Consultant: AECOM Technical Services, Inc.  
 Project Title: Improvements to Lift Stations 5229, 5236 and 5241  
 PBCWUD Project No.: 21-064

Summary Table with Labor and Expenses	SUBCONSULTANTS							TOTAL
	PRIME (AECOM)	SUB1 (Mock Roos)	SUB2 (BFA)	SUB3 (Brown Phillips)	SUB4 (C&W)	SUB5 (Radise)	SUB6 Csolutions	
<i>OEBO APPROVED AWARDED CATEGORY</i>	Non-SBE	Non-SBE	SBE	SBE	SBE	Non-SBE	SBE	
LABOR	\$ 587,551.00	\$ -	\$ -	\$ 61,044.67	\$ 128,947.20	\$ 8,414.14	\$ -	\$ 785,957.01
REIMBURSABLES	\$ 1,750.00	\$ -	\$ -	\$ -		\$ -		\$ 1,750.00
<b>TOTAL</b>	<b>\$ 589,301.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 61,044.67</b>	<b>\$ 128,947.20</b>	<b>\$ 8,414.14</b>	<b>\$ -</b>	<b>\$ 787,707.01</b>

July 10, 2025

Ms. Karen Brandon  
AECOM  
110 E Broward Boulevard Suite 700  
Fort Lauderdale, FL 33301

**Re: PBCWUD Master Pump Station – CSA 4 for LS 5229, LS 5236, and LS 5241  
Topographic Surveys**

Dear Karen:

Thank you for the opportunity to provide you with the following services for the subject site. This proposal is based on documentation and information provided by your office. The scope of services is as follows:

### SCOPE OF SERVICES

#### I. HORIZONTAL PROJECT NETWORK CONTROL

A traverse will be run through the site, and all found monumentation will be tied in. The survey will be oriented to Palm Beach County horizontal control (NAD 83/11 Adjustment). We will obtain the sectional and geodetic control information from the Palm Beach County Survey Department.

#### II. VERTICAL PROJECT NETWORK CONTROL

A level run will be performed onsite using the existing Palm Beach County benchmarks (NAVD 1988). At least two benchmarks will be set onsite.

#### III. TOPOGRAPHIC SURVEY

A complete topographic survey will be done at the site (approximate limits are outlined in dark blue on Attachment 'B') tying in all above ground features. This will include the following from the Scope of Work included in your email dated September 2, 2022:

Carry out a field survey and coordinate for subsurface utility investigations of the three project sites and within the associated public right-of-way where the work is being performed to support the construction of the new facilities to include the following:

1. Determine dimensions, elevations, and measurements of existing pump station features, piping, and site layout.
2. Brown & Phillips (B&P) will utilize ground penetrating radar (GPR) to identify buried utilities. We will designate the buried utilities, and locate the marked lines, then add them to the survey. B&P will perform up to thirty (30) test holes at the proposed tie-in locations and critical pipe crossings. We will place witness pipes with labels at found utilities so coordinates and depths can be obtained.

1860 Old Okeechobee Road • Suite 509 • West Palm Beach, Florida 33409  
(561) 615-3988 • Fax (561) 615-3991

M:\PROPOSALS\BY COMPANY\AECOM\PBCWUD Master Pump Station\LS 5229, 5236, 5241\LS 5229, LS 5236 and LS 5241 - Topographic Surveys and SUE.doc

Brandon  
July 10, 2025  
Page 2

3. Obtain site-specific information, such as the boundary lines and topographic survey.
4. Obtain specific boundary information, such as right-of-way lines, subdivision lines, lot lines, baselines, and easement lines, as required by the project.

The survey shall be signed and sealed by a Florida Registered Professional Land Surveyor. Not a boundary survey.

#### IV. AS-BUILTS

We will attempt to get as-built information on all the pipes leading out of any storm or sanitary sewer structures found. We will show invert elevations, pipe sizes and materials for all pipes located including outfall pipes. If we find any storm and sanitary sewer inverts that are full of debris, we will alert you so that you can coordinate with PBCWUD to potentially clear them out in order for us to obtain the as-built information.

#### IV. UNDERGROUND UTILITIES

We will scan and target the underground utilities that service the site. We will then locate the designated utilities and add them to the survey. In addition, we will perform up to fifteen (15) test holes.

#### V. ITEMS NOT INCLUDED

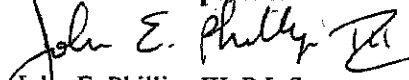
The proposed boundary and topographic survey will **not** include the following items:

- a. Sub-surface foundations of structures
- b. Roof drains
- c. Sprinkler heads
- d. Overhead clearances (signal heads, wires, bridges, roofs, overhangs, walkways, etc.)
- e. Temporary features such as trailers, movable barriers/fences, solar lighting, etc.
- f. Not a boundary survey

#### VI. CLOSURE

A drawing will be produced which will show all the features located. We propose to provide AECOM with hard copies, a digitally signed PDF file, and an AutoCAD file in the version requested. We will perform the scope of services for an **hourly, not to exceed fee of \$61,044.67** (\$13,956.27 for LS 5229, \$14,331.80 for LS 5236, and \$14,550.80 for LS 5241, plus \$18,205.80 for up to 30 test holes) see Attachment 'A' for an hourly estimate. Please do not hesitate to call me with any questions you might have regarding this proposal. We look forward to working with you on this project.

**Brown & Phillips, Inc.**

  
John E. Phillips III, P.L.S.  
Principal

Attachment

JEP/mb

ATTACHMENT 'A' (1 of 4)

PBCWUD Master Pump Station – CSA #4 for LS 5229, LS 5236, and LS 5241

Type of Survey: Topographic

Size: 1.5± acres

Date: July 10, 2025

TASK - LS 5229	SURVEY CREW	CADD TECH	SURVEY TECH	PLS	COMMENTS
Meetings and Coordination				2	
Horizontal Project Network Control	2		6	2	Set control points, work up R/W and plats
Vertical Project Network Control	4		1		Establish onsite benchmarks
Section/Boundary Ties	4		2	1	Find and locate existing monumentation
Tie In Improvements and Cross Sections	21.5		3	1	All above ground features, 50' cross sections & spot elevs.
As-builts	6		2		Obtain as-built data
Drawing		16.5	5	3	Prepare topographic survey
Underground Utilities	8	4	2	0.5	Field locate flagged utilities
Total Hours:	45.5	20.5	21	9.5	
Rate/Hour	\$50.60	\$31.00	\$31.00	\$42.00	(unloaded)
Subtotal:	\$2,302.30	\$635.50	\$651.00	\$396.62	
Total cost per Lift Station (unloaded):					\$3,985.42
Multiplier:					3
Total cost per Lift Stations (loaded)					\$11,956.27

**Direct Costs:**

SUE Utility Targeting 1 day \$2,000.00 \$2,000.00

**Total Direct Costs:**

\$2,000.00

**TOTAL PRICE:**

**\$13,956.27**



**BROWN & PHILLIPS, Inc.**  
 PROFESSIONAL SURVEYING SERVICES

ATTACHMENT 'A' (2 of 4)

PBCWUD Master Pump Station – CSA #4 for LS 5229, LS 5236, and LS 5241

Type of Survey: Topographic

Date: July 10, 2025

TASK - LS 5236	SURVEY CREW	CADD TECH	SURVEY TECH	PLS	COMMENTS
Meetings and Coordination				2	
Horizontal Project Network Control	2		7	1	Set control points, work up R/W and plats
Vertical Project Network Control	4		1		Establish onsite benchmarks
Section/Boundary Ties	4		2	1	Find and locate existing monumentation
Tie In Improvements and Cross Sections	20		3	1	All above ground features, 50' cross sections & spot elevs.
As-builts	8		3		Obtain as-built data
Drawing		20	4	3	Prepare topographic survey
Underground Utilities	8	4	2	0.5	Field locate flagged utilities
Total Hours:	46	24	22	8.5	
Rate/Hour	\$50.60	\$31.00	\$31.00	\$42.00	(unloaded)
Subtotal:	\$2,327.60	\$744.00	\$682.00	\$357.00	
Total cost per Lift Station (unloaded):					\$4,110.60
Multiplier:					3
Total cost per Lift Stations (loaded)					\$12,331.80

**Direct Costs:**

SUE Utility Targeting 1 day \$2,000.00 \$2,000.00

**Total Direct Costs:**

\$2,000.00

**TOTAL PRICE**

**\$14,331.80**



**BROWN & PHILLIPS, Inc.**  
 PROFESSIONAL SURVEYING SERVICES

ATTACHMENT 'A' (3 of 4)

PBCWUD Master Pump Station – CSA #4 for LS 5229, LS 5236, and LS 5241

Type of Survey: Topographic  
 Size: 1± acre  
 Date: July 10, 2025

TASK - LS 5241	SURVEY CREW	CADD TECH	SURVEY TECH	PLS	COMMENTS
Meetings and Coordination				2	
Horizontal Project Network Control	2		8	2	Set control points, work up R/W and plats
Vertical Project Network Control	6		1		Establish onsite benchmarks
Section/Boundary Ties	4		2	1	Find and locate existing monumentation
Tie In Improvements and Cross Sections	18		3	1	All above ground features, 50' cross sections & spot elevs.
As-builts	8		2		Obtain as-built data
Drawing		20	5	3	Prepare topographic survey
Underground Utilities	8	4	2	0.5	Field locate flagged utilities and potholes
Total Hours:	46	24	23	9.5	
Rate/Hour	\$50.60	\$31.00	\$31.00	\$42.00	(unloaded)
Subtotal:	\$2,327.60	\$744.00	\$713.00	\$399.00	
Total cost per Lift Station (unloaded):					\$4,183.60
Multiplier:					3
Total cost per Lift Stations (loaded)					\$12,550.80

**Direct Costs:**  
 SUE Utility Targeting 1 day \$2,000.00 \$2,000.00  
**Total Direct Costs:** \$2,000.00  
**TOTAL PRICE** \$14,550.80

ATTACHMENT 'A' (4 of 4)

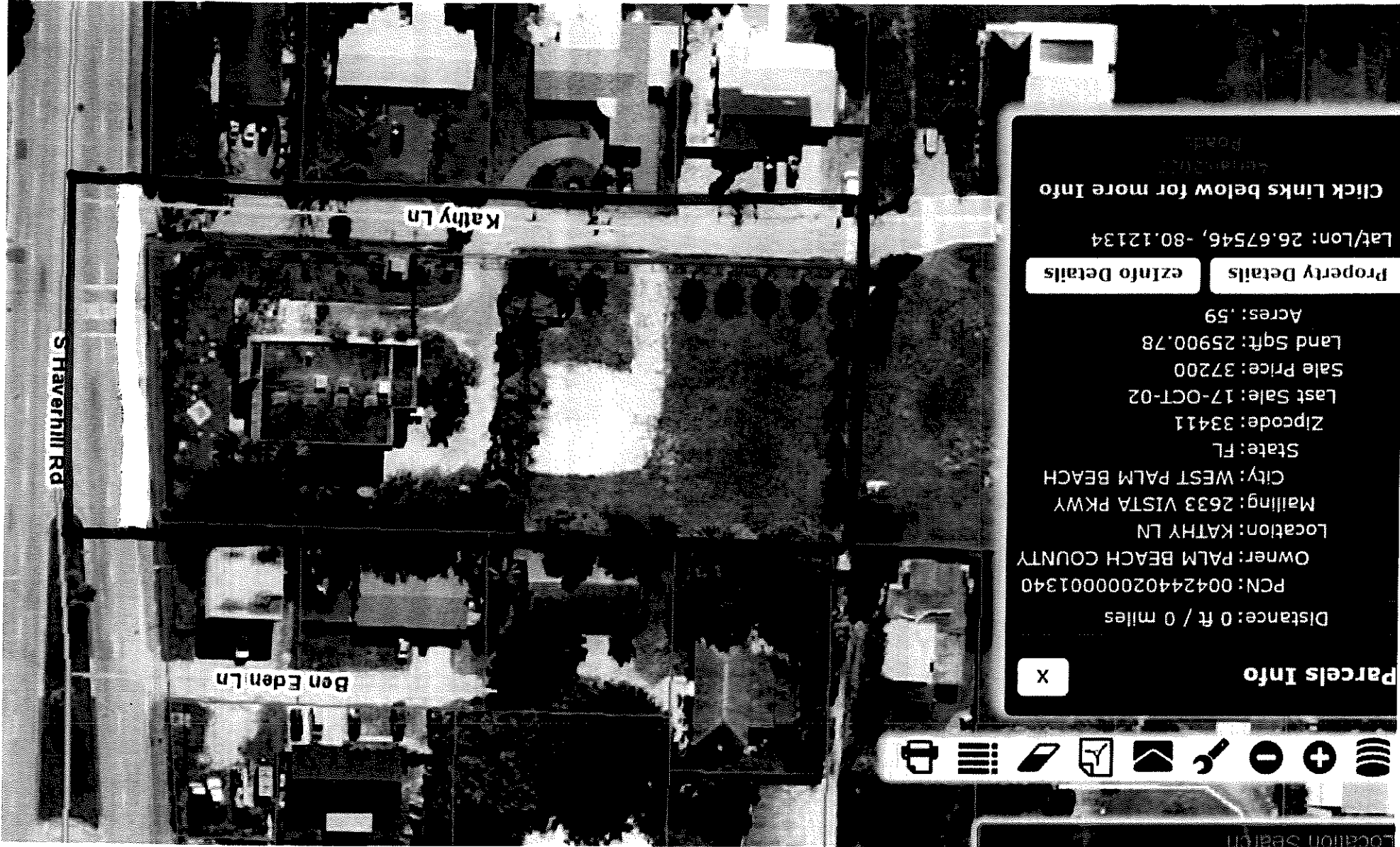
PBCWUD Master Pump Station – CSA #4 for LS 5229, LS 5236, and LS 5241

Type of Survey: Topographic  
Date: July 10, 2025

TASK - Test Holes (30) Tie-In Survey	SURVEY CREW	CADD TECH	SURVEY TECH	PLS	COMMENTS
Horizontal and Vertical Project Network Control	6		1		Find and recover control
Field locate test holes and obtain elevation of pipes (x,y,z)	10	3	3	1	Locate test holes and prepare reports
Total Hours:	16	3	4	1	
Rate/Hour	\$151.80	\$93.00	\$93.00	\$126.00	
Subtotal:	\$2,428.80	\$279.00	\$372.00	\$126.00	
<b>Total Labor Cost:</b>					<b>\$3,205.80</b>

<u>Other Direct Costs:</u>	<u>quantity</u>	<u>unit</u>	<u>cost/unit</u>	<u>total</u>	
SUE Test Holes	30	each	\$500.00	\$15,000.00	
Other				\$0.00	
<b>Total Other Direct Costs:</b>					<b>\$15,000.00</b>
<b>TOTAL PRICE FOR TEST HOLES:</b>					<b>\$18,205.80</b>

LS 5229



LS 5236



Distance: 0 ft / 0 miles

PCN: 0043440600003020

Owner: PALM BEACH COUNTY

Location: 3645 GUN CLUB RD

Mailing: 2633 VISTA PKWY

City: WEST PALM BEACH

State: FL

Zipcode: 33411

Last Sale: NA

Sale Price: NA

Land Sqft: 340292.63

Acres: 78.1

Property Details

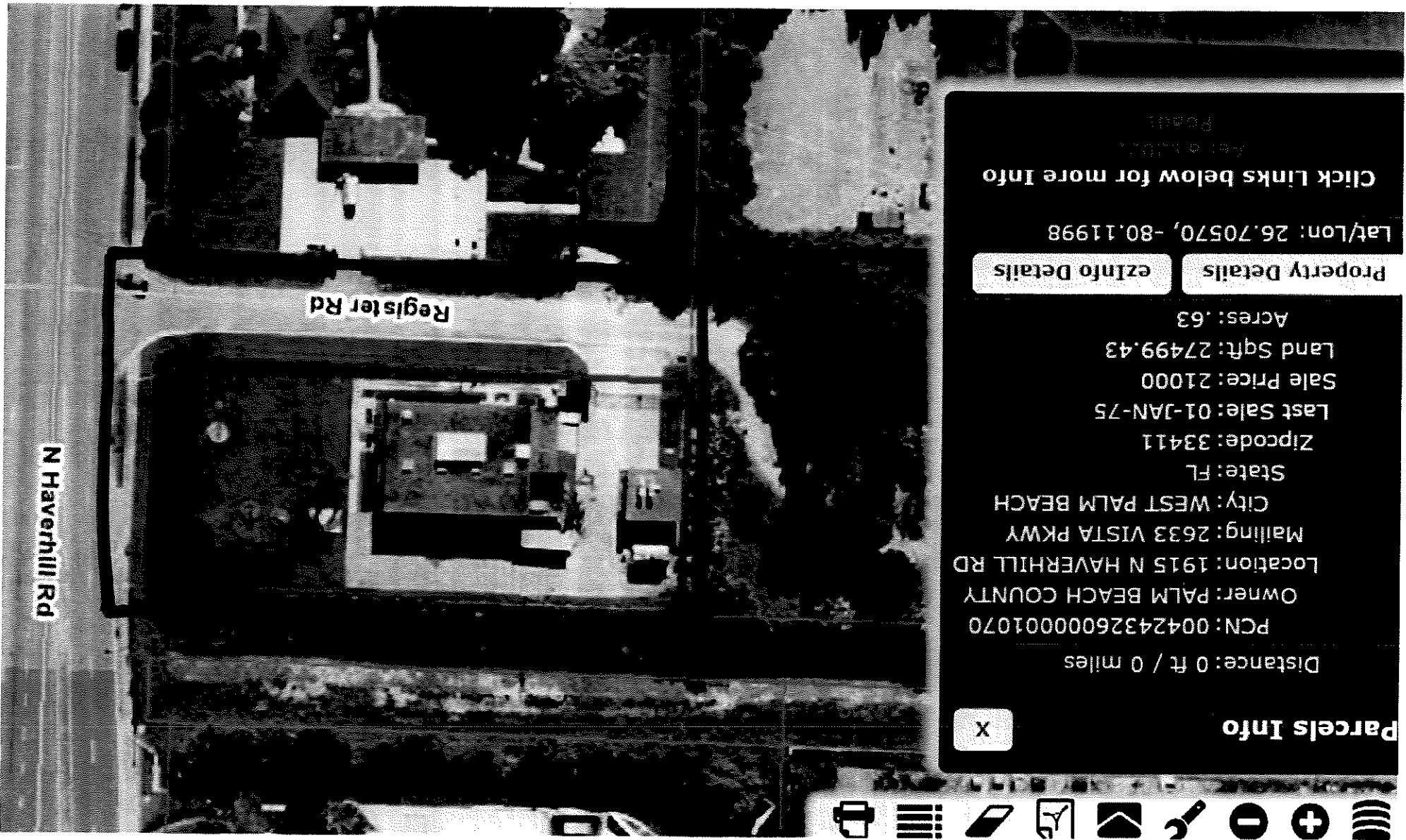
ezInfo Details

Lat/Lon: 26.67435, -80.09552

Click Links below for more Info



LS 5241



**ATTACHMENT E  
BUDGET SUMMARY**

Palm Beach County Water Utilities Department  
 Contract for Consulting/Professional Services (MASTER LIFT STATION AND REPUMP IMPROVEMENTS)  
 Resolution No. R2021-0508 Contract Dated April 20, 2021  
 Consultant Services Authorization: 4  
 Consultant: Brown & Phillips, Inc.  
 Project Title: Improvements to Lift Stations 5229, 5236 and 5241  
 PBCWUD Project No.: 21-064

**BUDGET SUMMARY FOR FIRM**

Task Number	Task Description	PLS (Professional Land Surveyor)	Survey Tech	CADD Tech	Survey Crew	SUBCONSULTANT TOTALS			
						Total Hours	Total Labor	Total Expenses	Total Labor and Expenses
	Raw Rate RANGE from MASTER EXHIBIT C								
	Raw Rate >	\$ 42.00	\$ 31.00	\$ 31.00	\$ 50.60				
	Multiplier >	3	3	3	3				
	Bill Rate >	\$ 126.00	\$ 93.00	\$ 93.00	\$ 151.80				
TASK 1	Lift Station 5229								
	Topographic Survey	9.5	21	20.5	45.5	96.5	\$ 11,956.27	\$ -	\$ 11,956.27
	SUE Utility Targeting							\$ 2,000.00	\$ 2,000.00
	Reimbursable	---	---	---	---	---	---		\$ -
	<b>Task 1 - Subtotal</b>	<b>9.5</b>	<b>21</b>	<b>20.5</b>	<b>45.5</b>	<b>96.5</b>	<b>\$ 11,956.27</b>	<b>\$ 2,000.00</b>	<b>\$ 13,956.27</b>
TASK 2	Lift Station 5236								
	Topographic Survey	8.5	22	24	46	100.5	\$ 12,331.80	\$ -	\$ 12,331.80
	SUE Utility Targeting						\$ -	\$ 2,000.00	\$ 2,000.00
	Reimbursable	---	---	---	---	---	---		\$ -
	<b>Task 2 - Subtotal</b>	<b>8.5</b>	<b>22</b>	<b>24</b>	<b>46</b>	<b>100.5</b>	<b>\$ 12,331.80</b>	<b>\$ 2,000.00</b>	<b>\$ 14,331.80</b>
TASK 3	Lift Station 5241								
	Topographic Survey	9.5	23	24	46	102.5	\$ 12,550.80	\$ -	\$ 12,550.80
	SUE Utility Targeting							\$ 2,000.00	\$ 2,000.00
	Reimbursable	---	---	---	---	---	---		\$ -
	<b>Task 3 - Subtotal</b>	<b>9.5</b>	<b>23</b>	<b>24</b>	<b>46</b>	<b>102.5</b>	<b>\$ 12,550.80</b>	<b>\$ 2,000.00</b>	<b>\$ 14,550.80</b>
TASK 4	Test Holes								
	Test Hole Tie-In Survey	1	4	3	16	24	\$ 3,205.80	\$ -	\$ 3,205.80
	Test Holes (30 @ \$500.00 each)							\$ 15,000.00	\$ 15,000.00

<i>Reimbursable</i>	---	---	---	---	---	---	---	---
<b>Task 4 - Subtotal</b>	<b>1</b>	<b>4</b>	<b>3</b>	<b>16</b>	<b>24</b>	<b>\$ 3,205.80</b>	<b>\$ 15,000.00</b>	<b>\$ 18,205.80</b>
<b>Labor Subtotal Hours</b>	<b>28.5</b>	<b>70</b>	<b>71.5</b>	<b>153.5</b>	<b>323.5</b>			
<b>Labor Raw Costs</b>	<b>\$ 1,197.00</b>	<b>\$ 2,170.00</b>	<b>\$ 2,216.50</b>	<b>\$ 7,767.10</b>		<b>\$ 13,350.60</b>		
<b>Labor Subtotal (Bill Rate * Labor Subtotal Hours)</b>	<b>\$ 3,591.00</b>	<b>\$ 6,510.00</b>	<b>\$ 6,649.50</b>	<b>\$ 23,301.30</b>		<b>\$ 40,051.80</b>		
<b>PROJECT TOTAL</b>					<b>323.5</b>	<b>\$ 40,051.80</b>	<b>\$ 21,000.00</b>	<b>\$ 61,044.67</b>

# C & W engineering Inc.

---

Consulting Engineers – Electrical • HVAC • Plumbing

6903 Vista Parkway North, #10  
West Palm Beach, FL 33411  
(561) 642-5333

Revised November 18, 2025

Karen Brandon, PE  
AECOM  
2090 Palm Beach Lakes Blvd Ste 600  
West Palm Beach, FL 33409

Subject: Improvements to Lift Stations 5229, LS 5236, and LS5241  
WUD Project# 21-064, Authorization No 4  
Electrical Engineering Proposal Revised  
C&W Ref. 50216.DES

Dear Karen:

I am pleased to submit this revised proposal for your consideration to provide Electrical, Instrumentation and Controls Engineering Design Services for the above referenced project. The work will include design efforts at the three existing pump stations as indicated in this proposal:

**For MLS 5229:**

1. Include new electrical Load bank permanently installed at the pump station with switching to select load bank or pump station load to test the generator under load bank.
2. Include new shunt trip control at the side entrance to the station's electrical room to allow for shutting down of Normal FPL 4160V feed. Coordinate with existing generator E-stop/shunt trip to also shut down emergency power. Provide a solution to staff and fire department in the event of a fire. This is in leu of replacement of the main breaker, as this is an expensive option that most likely can be avoided with a normal power E-stop control station wired into the breaker's auxiliary controls.
3. Provide revised electrical one lines for normal and emergency power that includes modifications stated above.

C&W Ref. 50216.DES

4. Design for an additional flow meter for the proposed integral bypass piping. This shall include power, and signal conduit and wires to existing control panel. Provide specifications for Contractor doing work also to program new instruments into PLC, coordinate w/PBCWUD staff.
5. Include any replacement of existing instruments as needed.
6. Design improvements to the operation of the station – programming logic as needed to convey staff's desire for changes in the operation of the station moving forward.
7. Design power and controls for four (4) new electric actuator valves around the proposed piping integral bypass.
8. Include any new field instruments that may be installed along with the four motorized actuators, like pressure transmitters, or flow switches, as required.
9. Include to the existing building the design to use key cards to access doors into the building. The proposed new key card access security system shall include raceways for unlocking doors and key card readers at specific door locations. Including a control panel for key card access.
10. Addition of key access reader at a new motorized access gate system, with vehicle detection loops (inside portion) and an entry CCTV camera.
11. Provide for a CCTV video camera system in accordance with PBCWUD Facilities, and a control panel for CCTV, or a central location for the CCTV digital video recorder.
12. Provide changes in programming/ and or upgrade if available to the existing VFD equipment to provide de-ragging capabilities.

**For MLS 5236:**

1. Provide demolition to the existing station's 480V equipment, and provide engineering to provide lighting and receptacles for converting the existing building as a storage facility. There will be some demolition of existing areas and equipment that we will coordinate with structural and civil, and provide improvements for lighting and receptacles for the rehabilitated interior building as required. We will provide design and demolition of certain equipment no longer needed as a storage facility.
2. Provide instruments as needed for the proposed new chemical injection system

C&W Ref. 50216.DES

at the front of the property.

3. Provide demolition details, and new service meter, panel and distribution power and controls to existing corrosion system.
4. Provide telemetry to existing corrosion system and remaining field instruments so PBCWUD has monitoring capabilities.
5. Include some site lighting of remaining corrosion system area and elsewhere as coordinated with PBCWUD staff.
6. Based on the final site elements remaining grounding and lightning protection shall be added as needed so the new site layout is compliant, and equipment is protected.

**For MLS 5241:**

1. Provide demolition to the existing station's building and most of its equipment, coordinate demolition of 13,200V and 4,160V service equipment, and new 480V service with FPL to provide power to the proposed new bypass motor actuators and miscellaneous instrumentation and other related equipment.
2. Design power and controls for four (4) new electric actuator valves around the proposed piping integral bypass.
3. Include any new field instruments that may be installed along with the four motorized actuators, like pressure transmitters, or flow switches, as required.
4. Provide design for new control panel, RTU telemetry, local PLC monitoring the motorized actuator/valves, and field instruments, along with diesel pumps status and alarms point.
5. Provide area lighting for new metal roof pole barn covered areas. Include lighting protection for this structure.
6. Design power for a new monorail and bridge crane.

All three rehabilitation projects listed above shall include submittal of documents (drawings and specifications) at the 30% phase, 60% phase, a 90% phase, and a final bid documents phase. At each phase we will attend a coordination review meeting and implement changes requested by staff

C&W Ref. 50216.DES

At each phase an opinion of construction costs shall be provided for each pump station.

During the design phases several site visits may be required for engineering staff to collect initial and additional information; we will coordinate with PBCWUD staff and design team and obtain approval ahead of any needed visits.

All three sites shall include services for permitting, including engineering services during the bidding cycle to respond to bidder's question.

During the entire design process, we shall include time to attend weekly virtual meetings.

Services during construction are EXCLUDED.

### **DESIGN SERVICES**

#### Coordination

- AECOM/Mock Roos
- FPL as required
- Owner
- Vendors

#### Field Investigations

#### Engineering

- Verifying Power Source
- Observe Existing Conditions

#### Drawings

- Electrical Site Plan
- Electrical Equipment Plan
- Existing building electrical and equipment rooms (as needed)
- One Line Power Diagram
- Electrical risers as required
- 4,160/480V electrical gear control diagram as needed.
- Instrumentation Diagrams
- PID of pump station equipment being added or modified.
- Electrical and instrumentation details as required.

#### Typical Division 16 Specifications

C&W Ref. 50216.DES

Provide documents for Review and Approval.

Bid Assistance, Response to Questions

Issued conformed contract documents

**REVISION: Fee is being separated and divided by Pump Station**

**Tasks 1, 2, and 4 are all divided in 1/3 of the total fee for each of the three pump stations.**

**Task 3 is divided as 45% for Pump Station 5229, and two 27.5% portions for pump stations 5236 and 5241.**

<b><u>DESIGN FEE:</u></b>		<b>PS 5229</b>	<b>PS5236</b>	<b>PS5241</b>
Tasks 1	<u>\$ 19,152.00</u>	<u>\$6,384.00</u>	<u>\$6,384.00</u>	<u>\$6,384.00</u>
Tasks 2	<u>\$ 10,454.40</u>	<u>\$3,484.80</u>	<u>\$3,484.80</u>	<u>\$3,484.80</u>
Tasks 3	<u>\$ 91,737.60</u>	<u>\$41,281.92</u>	<u>\$25,227.84</u>	<u>\$25,227.84</u>
Tasks 4	<u>\$ 7,603.20</u>	<u>\$2,534.40</u>	<u>\$2,534.40</u>	<u>\$2,534.40</u>
<b>Total Fee</b>	<b>\$128,947.20</b>	<b>\$53,684.92</b>	<b>\$37,631.04</b>	<b>\$37,631.04</b>

Above fee is hourly not to exceed.

**CONSTRUCTION PHASE SERVICES: EXCLUDED**

I trust the above scope is in agreement with your needs and expectations. If you have questions or comments regarding the above, please call.

Very truly yours,

**C & W Engineering, Inc.**



Michael Guida, P.E.

JLR/nl/file

**ATTACHMENT E  
BUDGET SUMMARY**

Palm Beach County Water Utilities Department  
 Contract for Consulting/Professional Services MASTER LIFT STATION AND REPUMP IMPROVEMENTS  
 Resolution No. R2021-0508 Contract Dated April 20, 2025  
 Consultant Services Authorization: 4  
 Consultant: **C & W ENGINEERING, INC.**  
 Project Title: Improvements to Lift Stations 5229, 5236, and 5241  
 PBCWUD Project No.: 21-064

BUDGET SUMMARY FOR FIRM								PRIME TOTALS			
Task Number	Task Description	Principal Engineer	Senior Project Manager	Project Engineer	Engineer	CADD Tech	Administration	Total Hours	Total Labor	Total Expenses	Total Labor and Expenses
	Raw Rate RANGE from MASTER EXHIBIT C	\$80-\$120	\$60-\$80	\$45-\$65	\$30-\$45	\$20-\$35	\$25-\$40				
	Raw Rate >	\$ 95.00	\$ 74.00	\$ 40.00	\$ 34.00	\$ 28.00	\$ 35.00				
	Multiplier >	2.40	2.40	2.40	2.40	2.40	2.40				
	Bill Rate >	\$ 230.40	\$ 177.60	\$ 96.00	\$ 81.60	\$ 67.20	\$ 84.00				
TASK 1	<b>Project Initiation and Management</b>										
	<i>Subtask 1.2 - Project Reporting, Coordination and Communications</i>	38	38	38	0	0	26	140	\$ 19,152.00	\$ -	\$ 19,152.00
	<b>Task 1 - Subtotal</b>	<b>38</b>	<b>38</b>	<b>38</b>	<b>0</b>	<b>0</b>	<b>26</b>	<b>140</b>	<b>\$ 19,152.00</b>	<b>\$ -</b>	<b>\$ 19,152.00</b>
TASK 2	<b>Existing Conditions and Field Investigations</b>										
	<i>Subtask 2.1 - Existing Information and Engineering Field Investigations</i>	17	26	20	0	0	4	67	\$ 10,454.40	\$ -	\$ 10,454.40
	<b>Task 2 - Subtotal</b>	<b>17</b>	<b>26</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>67</b>	<b>\$ 10,454.40</b>	<b>\$ -</b>	<b>\$ 10,454.40</b>
TASK 3	<b>Design Delivery and Permitting</b>										
	<i>Subtask 3.1 - Basis of Design Memorandum and Conceptual (30 percent) Design</i>	16	82	84	33	33	4	252	\$ 31,224.00	\$ -	\$ 31,224.00
	<i>Subtask 3.2 - Intermediate (60 percent) Design</i>	16	85	44	33	31	4	213	\$ 27,782.40	\$ -	\$ 27,782.40
	<i>Subtask 3.3 - Pre-Final (90 percent) Design</i>	12	42	38	24	24	4	144	\$ 17,443.20	\$ -	\$ 17,443.20
	<i>Subtask 3.4 - Permitting Submittals and Coordination with Regulatory Agencies</i>	3	28	24	13	13	4	85	\$ 9,902.40	\$ -	\$ 9,902.40
	<i>Subtask 3.5 - Final (100 percent) Design</i>	3	16	10	6	6	4	45	\$ 5,385.60	\$ -	\$ 5,385.60
	<b>Task 3 - Subtotal</b>	<b>50</b>	<b>253</b>	<b>200</b>	<b>76</b>	<b>77</b>	<b>20</b>	<b>739</b>	<b>\$ 91,737.60</b>	<b>\$ -</b>	<b>\$ 91,737.60</b>
TASK 4	<b>Bid Phase Services</b>										
	<i>Subtask 4.1 Bid Phase Services</i>	8	12	22	12	8	4	66	\$ 7,603.20	\$ -	\$ 7,603.20
	<b>Task 4 - Subtotal</b>	<b>8</b>	<b>12</b>	<b>22</b>	<b>12</b>	<b>2</b>	<b>4</b>	<b>66</b>	<b>\$ 7,603.20</b>	<b>\$ -</b>	<b>\$ 7,603.20</b>
	<b>Total (Task 1,2,3, and 4)</b>	<b>113</b>	<b>329</b>	<b>280</b>	<b>96</b>	<b>117</b>	<b>54</b>	<b>1012</b>	<b>\$ 128,947.20</b>	<b>\$ -</b>	<b>\$ 128,947.20</b>
	<b>Labor Subtotal Hours</b>	<b>113</b>	<b>329</b>	<b>280</b>	<b>12</b>		<b>54</b>	<b>734</b>			
	<b>Labor Raw Costs</b>	<b>\$ 10,735.00</b>	<b>\$ 24,346.00</b>	<b>\$ 11,200.00</b>	<b>\$ 408.00</b>	<b>\$ -</b>	<b>\$ 1,512.00</b>		<b>\$ 46,689.00</b>		
	<b>Labor Subtotal (Bill Rate * Labor Subtotal Hours)</b>	<b>\$ 26,035.20</b>	<b>\$ 58,430.40</b>	<b>\$ 26,880.00</b>	<b>\$ 979.20</b>	<b>\$ -</b>	<b>\$ 3,628.80</b>		<b>\$ 112,324.80</b>		
	<b>PROJECT TOTAL</b>							<b>1012</b>	<b>\$ 128,947.20</b>	<b>\$ -</b>	<b>\$ 128,947.20</b>



**Scope of Work (07-01-25)**  
**Geotechnical Engineering Services**  
**Improvements to Lift Stations 5229, 5236, and 5241**  
**PBCWUD Project No. 21-064**

The project includes improvements to three (3) lift stations. The Improvements to be assessed include wetwell, valve vault, piping, fittings, valves, base elbows, base plates, guide rails, non-clog submersible pumps, corrosion barrier system, by-pass connection, water service and backflow preventer, top slab, hatches, control panel, remote telemetry unit (RTU), automatic transfer switch (ATS), and instrumentation. It is assumed that none of the lift stations will require new/relocated wetwells. In addition, it is assumed that the boring locations are readily available to truck-mounted drilling equipment. The following geotechnical scope of work was identified:

**Field Work**

Site Visit/Utility Clearances at three (3) lift station sites

One (1) Standard Penetration Test (SPT) boring to 10 feet deep at each lift station site

**Lab Testing**

Visual Classification

Natural Moisture Content – 3 tests (1 per boring)

Fines Content Determination – 3 tests (1 per boring)

Organic Content – 3 tests (1 per boring)

**Engineering Services**

Coordinate access with PBCWUD

Utility Coordination

Field & Lab Work Coordination

Project Management

One (1) Geotechnical Engineering Services Report

- Detailed graphical logs of the soil borings showing the groundwater level and soil classifications.
- Laboratory test results.
- Table of pertinent soil parameters (USCS classification, dry and saturated unit weight, friction angle).
- Discussion of the suitability of the encountered soils for the support of the proposed improvements.



**Fee Estimate (07-01-25)**  
**Geotechnical Engineering Services**  
**Improvements to Lift Stations 5229, 5236, and 5241**  
**PBCWUD Project No. 21-064**

	Qty	Unit	Unit Price	Contract Item #	Total
<b>1.0 FIELD EXPLORATION</b>					
1.1 Access Coordination (Engineer, PE)	8	Hour	\$ 111.38	66	\$ 891.07
1.2 Stake borings and Utility Clearance (Staff Engineer)	8	Hour	\$ 95.91	67	\$ 767.28
Mobilization of drilling equipment to project (Minimum					
1.3 Charge): 50 mile travel	3	Trip	\$ 360.00	58	\$ 1,080.00
<b>1.4 3 SPT Borings to 10 ft</b>					
1.4.1 Standard Penetration Tests - Truck Rig (0' - 50')	30	LF	\$ 16.00	50	\$ 480.00
1.4.2 Casing (0' - 50')	30	LF	\$ 7.50	54	\$ 225.00
1.4.3 Grout bore holes (0' - 50')	30	LF	\$ 5.00	52	\$ 150.00
				<b>TOTAL FIELD WORK</b>	<b>\$ 3,593.35</b>
<b>2.0 LABORATORY SERVICES</b>					
2.1 Visual Classification (Engineer, PE)	3	Hour	\$ 111.38	66	\$ 334.15
2.2 Natural Sample Moisture Content	3	Test	\$ 20.00	10	\$ 60.00
2.3 Grain size determination - Wash through (#200)	3	Test	\$ 50.00	29	\$ 150.00
2.4 Organic Content Test	3	Test	\$ 55.00	7	\$ 165.00
				<b>TOTAL LABORATORY SERVICES</b>	<b>\$ 709.15</b>
<b>3.0 PROFESSIONAL SERVICES &amp; DELIVERABLES</b>					
3.1 Senior Geotechnical Engineer	2	Hour	\$ 147.84	65	\$ 295.68
3.2 Engineer, P.E.	8	Hour	\$ 111.38	66	\$ 891.07
3.3 Staff Engineer	24	Hour	\$ 95.91	67	\$ 2,301.84
3.4 Drafter / CADD	8	Hour	\$ 77.88	70	\$ 623.04
				<b>TOTAL PROFESSIONAL SERVICES</b>	<b>\$ 4,111.63</b>
				<b>TOTAL AMOUNT</b>	<b>\$ 8,414.14</b>

**ATTACHMENT E  
BUDGET SUMMARY**

Palm Beach County Water Utilities Department  
 Contract for Consulting/Professional Services (MASTER LIFT STATION AND PUMP IMPROVEMENTS)  
 Resolution No. 2021-0528 Contract Dated April 29, 2021  
 Consultant: BATES Engineering & Construction, LLC  
 Project Title: Improvements to Lift Stations 5229, 5238 and 5241  
 PCWUD Project No.: 21-064

Task Number	Task Description	Raw Rate Ranges from MASTER EXHIBIT C												Total Labor and Expenses
		Raw Rate > \$65.39	\$49.28	\$37.13	\$31.97	\$23.67	\$23.33	\$25.96	0.00	0.00	0.00	0.00	0.00	
		Multiplier > 2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
		Bid Rate > \$196.16	\$147.84	\$111.38	\$95.93	\$70.00	\$77.88							
TASK 1	Project Initiation and Management													
	Subtask 1.1 - Project Planning and Project Initiation Meeting													
	Subtask 1.2 - Project Reporting, Coordination, and Commitments													
	Subtask 1.3 - Quality Control													
	Task 1 - Subtotal	0	0	0	0	0	0	0	0	0	0	0	0	
TASK 2	Geotechnical Services													
	Subtask 2.1 - Perform Geotechnical Explorations and Analysis	2	11	8	8	8	8	8	8	8	8	8	8	
	Subtask 2.2 - Submit Geotechnical Report													
	Task 2 - Subtotal	0	2	19	32	0	8	8	8	8	8	8	8	
TASK 3	Design Delivery													
	Subtask 3.1 - Basis of Design Memorandum and Conceptual (30 percent) Design													
	Subtask 3.2 - Intermediate (50 percent) Design													
	Subtask 3.3 - Pre-Final (90 percent) Design													
	Subtask 3.4 - Final (100 percent) Design													
	Task 3 - Subtotal	0	0	0	0	0	0	0	0	0	0	0	0	
TASK 4	Permitting Services													
	Permitting Subtasks and Coordination with Regulatory Agencies													
	Task 4 - Subtotal	0	0	0	0	0	0	0	0	0	0	0	0	
TASK 5	Bid Phase Services													
	Subtask 5.1 - 5 Bid Phase Services													
	Task 5 - Subtotal	0	0	0	0	0	0	0	0	0	0	0	0	
	Remainder													
	Task 5 - Subtotal	0	0	0	0	0	0	0	0	0	0	0	0	
	Labor Subtotal Hours	0	2	19	32	0	8	8	8	8	8	8	8	
	Labor Subtotal (Bid Rate * Labor Subtotal Hours)	\$ 98.56	\$ 205.43	\$ 1,223.04	\$ 3,069.12	\$ -	\$ 207.68	\$ 207.68	\$ 207.68	\$ 207.68	\$ 207.68	\$ 207.68	\$ 207.68	
	Labor Subtotal (Bid Rate * Labor Subtotal Hours)	\$ 295.68	\$ 205.43	\$ 1,223.04	\$ 3,069.12	\$ -	\$ 207.68	\$ 207.68	\$ 207.68	\$ 207.68	\$ 207.68	\$ 207.68	\$ 207.68	
	PROJECT TOTAL													
	PRIME TOTALS	\$ 2,310.00	\$ 2,310.00	\$ 2,310.00	\$ 2,310.00	\$ 2,310.00	\$ 2,310.00	\$ 2,310.00	\$ 2,310.00	\$ 2,310.00	\$ 2,310.00	\$ 2,310.00	\$ 2,310.00	

**Estimate of Work Effort and Cost  
Prime Consultant**

**BUDGET SUMMARY**

<b>Palm Beach County Water Utilities Department</b>				
<b>Contract for Consulting/Professional Services (MASTER LIFT STATION AND REPUMP IMPROVEMENTS)</b>				
<b>Resolution No. R2021-0508 Contract Dated April 20, 2021</b>				
<b>Consultant Services Authorization: 4</b>				
<b>Consultant: RADISE International, LC</b>				
<b>Project Title: Improvements to Lift Stations 5229, 5236 and 5241</b>				
<b>PBCWUD Project No.: 21-064</b>				
<b>FIRM NAME Reimbursables</b>		<b>Projected Quantity</b>	<b>Unit Cost</b>	<b>Project Cost</b>
<b>TASK 2</b>	Mobilization of drilling equipment to project (Minimum Charge): 50 mile travel	3	\$360.00	\$1,080.00
<i>Geotechnical Services</i>	Standard Penetration Tests - Truck Rig (0' - 50')	30	\$16.00	\$480.00
	Casing (0' - 50')	30	\$7.50	\$225.00
	Grout bore holes (0' - 50')	30	\$5.00	\$150.00
	Natural Sample Moisture Content	3	\$20.00	\$60.00
	Grain size determination - Wash through (#200)	3	\$50.00	\$150.00
	Organic Content Test	3	\$55.00	\$165.00
<b>PROJECT TOTAL</b>				<b>\$2,310.00</b>

**ATTACHMENT F**

Palm Beach County Water Utilities Department  
Contract for Consulting/Professional Services  
*MASTER LIFT STATION AND REPUMP IMPROVEMENTS*  
Resolution No. R2021-0508 Contract Dated April 20, 2021

**SUMMARY OF  
SBE BUSINESS TRACKING**

<b>Master Contract Participation</b>	<b>SBE: 31%</b>
Current Proposal	
Value of Authorization No. <u>4</u>	<b>\$787,707.01</b>
Value of SBE Letters of Intent	<b>\$189,991.87</b>
Actual Percentage	<b>24.12%</b>
Signed/Approved Authorizations	
Total Value of Authorizations	<b>\$1,608,417.78</b>
Total Value of SBE Signed Subcontractors	<b>\$540,434.40</b>
Actual Percentage	<b>33.60%</b>
Signed/Approved Authorizations Plus Current Proposal	
Total Value of Authorization	<b>\$2,396,124.79</b>
Total Value of Subcontractors & Letters of Intent	<b>\$730,426.27</b>
Actual Percentage	<b>30.48%</b>

REVISED 12-03-25

**ATTACHMENT G**

**Location Map**

**PBCWUD Project No. 21-064**



REVISED 06-10-25



**Water Utilities Department  
Engineering Division**

8100 Forest Hill Blvd  
West Palm Beach, FL 33413  
(561) 493-6000  
Fax (561) 493-6085  
www.pbcwater.com



**Palm Beach County  
Board of County  
Commissioners**

Maria G. Manno, Mayor  
Sara Baxter, Vice Mayor  
Gregg K. Weiss  
Joel G. Flores  
Marci Woodward  
Maria Sachs  
Bobby Powell Jr.

**Interim County Administrator**

Todd J. Bonlarron

"An Equal Opportunity Employer"

Official Electronic Letterhead

July 14, 2025

Mr. Matthew Crane, President  
Aecom Technical Services, Inc.  
2090 Palm Beach Lakes Blvd., Suite 600  
West Palm Beach, Florida 33409

Re: Project Number: 20-043  
Master Lift Station and Repump Improvements  
Notification of Contract Clauses No Longer Being  
Enforced Pursuant to Emergency Ordinance 2025-014

Dear Mr. Crane,

On June 3, 2025, the Board of County Commissioners (BCC) approved an emergency ordinance to suspend the race and gender conscious provisions of the County's EBO ordinance. The suspension will remain in effect for two years or until further direction by the BCC, whichever comes first. As a result, the provisions relating to minority/women-owned business enterprise (M/WBEs) participation contained in the contract document (R2021-0508) under Article 7- Subcontracting **will not be enforced** as of June 3, 2025, only the small business enterprise (SBE) provisions will apply.

Please sign below to acknowledge receipt of this notification. This acknowledgement will be included in, and made part of, the contract file.

Should you require any additional information please contact Ms. Christina Bervin at [cbervin@pbcwater.com](mailto:cbervin@pbcwater.com) or at (561) 493 5203.

Cordially,

Jane House, P.E., LEED AP  
Director of Engineering Division

**Receipt Acknowledged and In Agreement:**

AECOM Technical Services, Inc.  
(Consultant)

Karen Brandon, PE  
(Print Name)

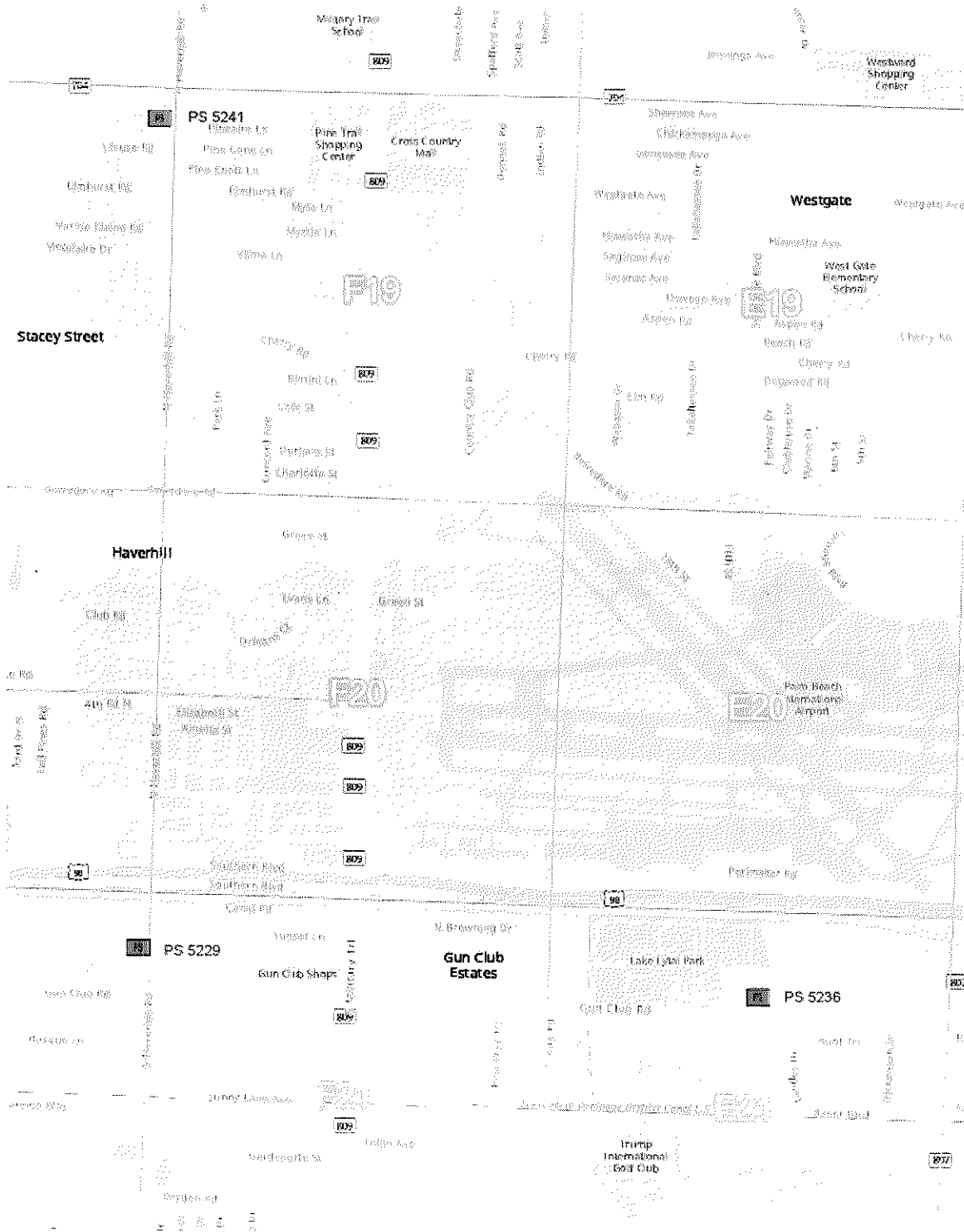
Karen Brandon  
(Signature)

07/15/2025  
(Date)

# ATTACHMENT 2

## Location Map

### PBCWUD Project No. 21-064



REVISED 06-10-25



**Palm Beach County  
Compliance Summary Report**

Vendor Number	Vendor Name	AM Best Rating	Insurance Carrier	Policy #	Eff. Date	Exp. Date	Coverage	Contract Number	Contract Name
DX00001378	AECOM Technical Services Inc.	Modified	Compliant					20-043	Contract For Consulting/Professional Services Master Lift Station and Repump Improvements
		A++g , XV	ACE American Insurance Company	ISAH11370494	4/1/2025	4/1/2026	Auto Liability		
		A++g , XV	ACE American Insurance Company	HDOG48971714	4/1/2025	4/1/2026	General Liability		
		A++g , XV	Illinois Union Insurance Company	eong21654693005	4/1/2025	4/1/2026	Professional Liability		
		A++g , XV	ACE American Insurance Company	WLRC72792300	4/1/2025	4/1/2026	Workers Comp		

**Risk Profile :** Standard - General Services  
**Required Additional Insured :** Palm Beach County Board of County Commissioners  
**Ownership Entity :**