

Proposal to Provide Professional Engineering Services for
Town of Palm Beach
A-43 Wetwell/Drywell Conversion to a Submersible Lift Station

A. Project Description:

The A-43 Pump Station, originally constructed in 1962, is located at 3400 S Ocean Blvd on the Atriums of Palm Beach Condominium property. This station is a duplex wastewater pump station equipped with two 25 HP Fairbanks Morse dry pit submersible pumps. A third pump suction and discharge piping connection point exists in the drywell but is currently blind flanged with no pump installed.

The station's layout includes an electrical building situated above the below-grade drywell and wetwell. Access to the drywell is provided via a concrete staircase from the electrical room, while the wetwell is accessed using aluminum stairs from an exterior entrance on the east side of the building. The pumps, valves, and piping are all housed within the drywell. A single interconnected ventilation system with one blower serves both the wetwell and drywell, while the first-floor electrical room is ventilated with a wall exhaust fan.

The station operates with a 240V, 3-phase electrical service and is supported by an outdoor 125kW Generac generator within a sound-attenuated enclosure, installed in 2014. The RTU, located in the electrical room, communicates with the Town's SCADA system via radio, with its antenna pole mounted on the north side of the building. Additionally, a 1" water service provides potable water to the building. The last known improvement project was completed in 2014, focusing on generator and fuel piping replacement.

In May 2024, the Town of Palm Beach completed a pump station condition assessment for the A-43 Pump Station. The assessment identified the need for civil/mechanical, structural resiliency, and electrical upgrades, as most of the mechanical and electrical components will reach the end of their reliable service life within the next 10 years.

Based on the findings of the condition assessment and the resiliency requirements, the Town has elected to proceed with a full rehabilitation of the A-43 Pump Station. The scope of the rehabilitation includes converting the station from a dry well configuration to a wet well with electric submersible pumps. This conversion will save on rehabilitation cost, enhance operational reliability, improve maintenance access, reduce the visual impact, eliminate the need for confined space entry during pump maintenance, and extend the reliable service life of the station and its components. The project will also address electrical, structural, and ventilation system improvements to enhance the station's overall resilience and longevity.

The conversion of the existing wetwell/drywell to a submersible lift station will involve the following key design activities:

- **Site Drainage Enhancements:** Improvements will be made to the existing drainage system to provide site drainage for the improvements, directing runoff to the inlets on the west side of the pump station. Provide a water service connection with a backflow preventer.
- **Salvage, Demolition, and Removal:** The existing equipment and controls identified by the Town for salvage will be called out to be protected and transported to the Town. Structures and equipment not included in the rehabilitation will be demolished and removed.
- **Structural and Civil Modifications:** The existing above-grade building and floor slab will be removed. The remaining below-grade structure will be reinforced to meet current loading criteria and modified to accommodate new access points and structural loads.
- **Dry Well Modifications:** The equipment in the dry well will be removed, and the dry well will be partially filled. The upper section will be converted into a below-grade discharge gallery/valve vault.
- **Wet Well Modifications:** The top slab of the wet well will be replaced at grade with a new slab and hatches to access the submersible pumps. The wet well/dry well penetrations will be sealed, the wet well will be cleaned, a new bench will be installed, and the wet well will be coated. New level sensors and monitoring equipment will also be installed.
- **Discharge Pipe and Valve Modifications:** A portion of the discharge pipe will be removed and replaced to facilitate the installation of the new discharge gallery/valve vault. A station isolation valve will be installed with a bypass pump-out. Coordination with the Town of South Palm Beach (SPB) will be completed for a permanent emergency bypass pump-out connection to be installed in the adjacent SPB force main. The discharge pipe will be replaced from the pump station to the connection point with the existing force main on the west side of Ocean Boulevard. (The intent is to replace the entire original force main and tie into the recently installed force main west side of Ocean Boulevard, this connection location is assumed to be within 100-feet of the existing pump station.) Plug valves will be installed in the valve vault and for the forcemain. A flow measurement device will be installed as a requirement of the PBC Health Department Permit since the capacity of the station exceeds 350 GPM.
- **Pump Installations:** New electrical submersible pumps (duplex pump station) will be installed in the modified wet well. The station has operated for years in a built out condition. The existing pump curve will be used to select a new pump with approximately the same pump curve.
- **Electrical Installations:** Electrical controls will be installed adjacent to the station on an elevated platform to accommodate the December 2024 FEMA Flood Plain Map Revision. Integration with SCADA and remote monitoring systems will be included. A new rain gauge will be installed.
- **Backup Power and Ancillary Systems:** A new generator, fuel piping, and fuel tank will be installed. The generator and fuel system will be placed in a location that meets flood resiliency requirements. A new meter, disconnect, and automatic transfer switch (ATS) will be installed.
- **Site Restoration and Final Improvements:** Pavement restoration per FDOT requirements will be performed as required. Landscaping will be installed.

Mock•Roos will provide the Scope of Services outlined below.

B. Scope of Services:

Task 1 – Design Phase Services

1. Attend an onsite project kick-off meeting with the Town to review the scope of the conversion. During the onsite meeting, Mock•Roos will work with the Town to identify materials and equipment to be specified in the design for salvage and to be returned by the contractor for the Town's use. Mock•Roos team members will arrange and participate in up to two (2) meetings with Town staff and/or other stakeholders to discuss and coordinate various technical issues/topics related to this project.
2. Call in an 811-design ticket and coordinate with utilities listed on the design ticket to request records on infrastructure located within the project limits. Provide the services of a utility location firm to mark existing underground utilities horizontally within the project area that are identified using utility locates and Ground Penetrating Radar (GPR). Conduct up to five (5) soft dig test holes to verify critical utility locations.
3. Provide the services of a survey subconsultant licensed in the state of Florida to prepare a limited topographic survey of the pump station with sufficient data to prepare a basemap for the pump station and forcemain improvements. The survey limits will include a topographic survey of the roadway, covering a 100-foot width on each side of the project and extending from the west right-of-way to the east right-of-way. The perimeter of the existing building will be surveyed, along with surface features within the project area, including vegetation. Additionally, stormwater and sanitary sewer inlets and manholes will be located and documented, including invert elevations. The existing wet well configuration will also be surveyed and documented, with coordination required with the Town of Palm Beach for access. Based on the existing easement for the Pump Station and proposed improvements, an optional (\$650) sketch and legal description has been included for one parcel.
4. Prepare a base map using survey data, supplemented with field measurements and insights gathered from 811 utility coordination.
5. Review the SCADA data provided by the Town, along with the existing pump station settings. This will include an analysis of the contributing sanitary basin and consideration of any anticipated future improvements. Lift station calculations will be prepared, covering flow criteria, force main sizing, proposed elevations, static head, minor and friction losses, friction loss head, cycle times, flotation calculations, and the development of system and pump curves. These calculations are expected to be detailed enough to support the Town's application for a Palm Beach County Department of Health permit for the proposed improvements.
6. Prepare typical design calculations, drawings, specifications, and other required deliverables for Project components based on industry practice for such facilities to advance the Project design through 30-percent (for review/comment), Intermediate submittal coordination for specific components, 90-percent (for review/comment and Town Building Department submittal and Palm Beach County Department of Health Submittal) and 100-percent complete documents (for preapproved contractors). Review and coordination with Town staff shall be performed to confirm the proposed improvements are generally in accordance with the Town's Operation and Maintenance (O&M) goals.

7. Assist the Town in obtaining permits, from the Building Department, FDOT, and Palm Beach County Department of Health. Prepare and submit permit applications, as well as responding to agency comments and requests for additional information. ARCOM review is not anticipated.
8. Provide the design phase services of a professional surveyor (Brown and Phillips) to assist with the tasks above.
9. Provide the design phase services of an electrical engineer (C&W Engineering) to assist with the tasks above.
10. Provide the design phase services of a structural engineer (Kimley-Horn) to assist with the tasks above.
11. Provide the design phase services of a landscape architect (Kimley-Horn) to assist with the tasks above including landscape design and irrigation.
12. Provide services related to coordination and quality control of the project and project products. These services include general coordination with the Town, its consultants and internal reviews of deliverables, schedules, and project progress reports as necessary.

Task 2 – Bid Phase Services

1. Assist the Town in responding to RFI's pertaining to the project. Attend a pre-bid meeting at the Town's office followed by a site visit. Assist the Town to review and evaluate bid submittals for the project and attend a pre-award meeting, if requested. Provide the Town with a Letter of Recommendation for Award of the project.

Assumptions:

1. *The lift station's flow rate is expected to be greater than 350 GPM, and as such, a flow meter will be required in accordance with RSWF 42.8.*
2. *The existing wetwell is planned to be reused. If reuse is not feasible, an alternative scope for its replacement will be authorized.*
3. *It is anticipated that no additional easements will be required for the project. Stakeholder coordination will be completed by the Town.*
4. *It is anticipated that Mock•Roos will provide the Town with signed and sealed drawings for the Town to walk through the Town Building Department. No additional permits or ARCOM review is anticipated or included in this scope. Should ARCOM involvement be required, a scope amendment may be necessary. Landscape elevations will be provided to assist with the coordination on the project final look.*
5. *It is assumed that the existing wetwell can be modified to meet Hydraulic Institute standards and will not need to be replaced.*
6. *Town standard Flygt pumps will be used for the basis of the pump selection.*
7. *Per FEMA Flood Insurance Rate Map Panel 12099C0781G effective December 20, 2024, the Pump Station falls in Zone VE with a determined base flood elevation of 11.0 (NAVD 88) ~ 12.56 (NGVD 29). NGVD29=NAVD88+1.56'. Electrical control panels equipment will be elevated above this elevation. The Town Building Department will require equipment to be flood proofed or set to BFE +1'.*

C. Fee and Rates:

The total fee to provide the Scope of Services outlined above is estimated to be \$252,046, which includes \$93,806 of subconsultant services. Mock•Roos will complete the Scope of Services on an hourly basis at Mock•Roos' hourly rates, plus reimbursable expenses. See Attachment A for an estimate of hours.

D. Conditions:

This proposal is valid for 120 days from the date below. If the services are not authorized within this time frame, the fee is subject to revision.

MOCK•ROOS

Signed:  _____

Name: Garry G. Gruber, P.E.

Title: Senior Vice President

Date: February 18, 2025

Town of Palm Beach
A-43 Wetwell/Drywell Conversion to a Submersible Pump Station
EXHIBIT A
Mock•Roos PA#C4034.00

Task Description	Labor Categories						
	Principal Director	Senior Project Manager	Professional Engineer	Project Engineer III	Senior Administrative Assistant	Subconsultant Fees	Total
Labor Hourly Billing Rate	\$275.00	\$245.00	\$175.00	\$160.00	\$85.00		
Task 1 – Design Phase Services							
1 Kickoff meeting and Site Visit	2	16	16	4	4		\$ 8,250
2 Utility Coordination and Locates		2	6	20	2		\$ 4,910
3 Topographic Survey	2	2	4	10	2		\$ 3,510
4 Develop a Project Basemap	2	6	8	40	2		\$ 9,990
5 Lift Station Calculations	2	8	16	40	4		\$ 12,050
6 Design and Construction Drawings	16	64	118	240	36		\$ 82,190
7 Permits	4	10	26	28	10		\$ 13,430
8 Survey and Utility Locates (Brown and Phillips)		6				\$ 15,698	\$ 17,168
9 Electrical Engineering (C&W)		6				\$ 16,500	\$ 17,970
10 Structural Design Services (Kimley-Horn)		6	8			\$ 39,894	\$ 42,764
11 Landscaping Design Services (Kimley-Horn)		4	2			\$ 19,714	\$ 21,044
12 Project Management	12	24					\$ 9,180
Task 2 - Bid Phase Services							
1 Bid Phase Assistance (C&W and Kimley-Horn)	4	16	8		2	\$ 2,000	\$ 8,590
<i>Subtotal</i>	\$ 12,100	\$ 41,650	\$ 37,100	\$ 61,120	\$ 5,270	\$ 93,806	\$ 251,046
						Expenses	\$ 1,000
(Hourly Not to Exceed) Project Total							\$ 252,046

January 23, 2025

Mr. John Cairnes, P.E.
Mock Roos Consulting Engineers
5720 Corporate Way
West Palm Beach, FL 33407

**Re: Town of Palm Beach Lift Station A-43 Rehabilitation - Topographic Survey
(in front of Atriums of Palm Beach Condominium located at 3400 South Ocean Boulevard)**

Dear John:

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. RIGHT-OF-WAY

We will compile information from existing plats and deeds (per the PAPA website) and prepare a project base map showing the existing right-of-way, known easements, and any pertinent parcel information abutting the right-of-way.

II. HORIZONTAL AND VERTICAL PROJECT NETWORK CONTROL

We will obtain horizontal and vertical control for this Project using information published by the Palm Beach County Survey Department utilizing State Plane Coordinates for horizontal control and the North American Vertical Datum of 1988 (NAVD 88) for vertical control.

III. TOPOGRAPHIC SURVEY

We will perform a topographic survey of the lift station, depicting the horizontal and vertical location of facilities at the lift station site such as wet well and inverts, valve vault, piping, control panels, fence perimeter, etc. We will make every effort to accurately measure the wet well diameter and identify the inverts to the wet well. The approximate limits of the survey are shown outlined in red on Attachment 'B'.

The survey will include the following from your email dated January 20, 2025:

- Identify utilities horizontally within project area with utility locates/GPR (see Item IV)
- Provide up to 5 soft dig test holes (see Item IV)
- Road topo for 100-ft each side of the project from the west right of way to the east.
- The existing building perimeter and surface features in the area including vegetation.
- Storm and sanitary inlets and manholes with inverts.
- The wetwell configuration (contact Town of Palm Beach for access)

- The drywell interior bottom footprint and elevation (Equipment and pipes in the wetwell shall be added to the basemap by Mock Roos).
- Identify known easements

IV. TREE SURVEY

We will locate native trees 4 inches in diameter or larger. Trees will be measured at breast height, and palms will be measured at clear trunk height. Hedges and ground cover will not be located or shown on the survey. Exotic trees such as Melaleuca, Brazilian pepper and Australian pine will not be located or shown on the survey. We will identify the various types of trees located on this site based on common knowledge of tree species. A qualified landscape architect should be employed for positive identification of tree species. We will then produce a drawing showing all the trees located. We will provide you with signed and sealed hard copies and an AutoCAD file of the trees located.

V. 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 five (5) test holes at locations provided by you. We will then field locate the test holes and add the elevations of the pipes (x, y, and z) to the test hole reports.


VI. PARCEL SKETCHES AND LEGAL DESCRIPTIONS (OPTIONAL SERVICES)

If a utility easement is required, we will prepare a sketch and legal description. The sketch will be based on record ownership data and record plats provided by Palm Beach County and will be consistent with the requirements of the Town of Palm Beach and Florida Standards of Practice. We have estimated one (1) parcel for this project at \$650.00 each, totaling \$650.00.

VII. CLOSURE

A drawing will be produced which will show all the features located. We propose to provide Mock Roos with a digitally signed PDF file, and an AutoCAD file of the topographic survey drawing. We will perform the scope of services for a **lump sum fee of \$11,482.50 for the survey** (\$8,482.50 for the survey and \$3,000.00 for utility targeting) **plus \$3,565.00 for up to five (5) test holes and \$650.00 for a legal description and sketch** (optional), see Attachment 'A' for an estimated hourly breakdown. 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

This Proposal accepted this ____ day of _____, 2025

By: _____
Mock Roos Consulting Engineers

Print Name: _____

Title: _____



BROWN & PHILLIPS, Inc.

PROFESSIONAL SURVEYING SERVICES

ATTACHMENT 'A' (1 of 2)

Town of Palm Beach Lift Station A-43 Rehabilitation

Type of Survey: Topographic

Size:

Date: January 23, 2025

TASK	SURVEY CREW	CADD TECH	SURVEY TECH	PLS	COMMENTS
Meetings and Coordination				1	
Horizontal Project Network Control	5		8	1	Set control points and establish R/W
Vertical Project Network Control	5		1		Establish onsite benchmarks
Tie In Improvements and Cross Sections	8		2		Locate above ground features, incl. native trees over 4" diameter, cross sections & spot elevs.
Asbuilt	10		2	1	Obtain asbuilt data
Underground Utilities	2		0.5		Field locate flagged utilities
Drawing		12	3	2	Prepare topographic survey
Total Hours:	30	12	16.5	5	
Rate/Hour	\$150.00	\$105.00	\$115.00	\$165.00	
Subtotal:	\$4,500.00	\$1,260.00	\$1,897.50	\$825.00	
Total Labor Cost:					\$8,482.50

Direct Costs:

Utility Targeting Services

quantity

1.5

unit

days

cost/unit

\$2,000.00

total

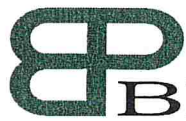
\$3,000.00

Total Direct Costs:

\$3,000.00

TOTAL PRICE FOR SURVEY:

\$11,482.50



BROWN & PHILLIPS, Inc.
P R O F E S S I O N A L S U R V E Y I N G S E R V I C E S

ATTACHMENT 'A' (2 of 2)

Town of Palm Beach Lift Station A-43 Rehabilitation

TASK - Test Holes	SURVEY CREW	CADD TECH	SURVEY TECH	PLS	COMMENTS
Locate test holes	4		1		Field locate test holes (x,y,z)
Drawing		2	0.5	0.5	Prepare test hole reports and add test hole information to survey
Total Hours:	4	2	1.5	0.5	
Rate/Hour	\$150.00	\$105.00	\$115.00	\$165.00	
Subtotal:	\$600.00	\$210.00	\$172.50	\$82.50	
Total Labor Cost:					\$1,065.00

Other Direct Costs:

	<u>quantity</u>	<u>unit</u>	<u>cost/unit</u>	<u>total</u>
SUE Test Holes	5	each	\$500.00	\$2,500.00

Total Other Direct Costs: **\$2,500.00**

TOTAL COST FOR TEST HOLES: **\$3,565.00**

Optional Services:

Legal Description & Sketch	1	each	\$650.00	\$650.00
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Total Optional Services: **\$650.00**

TOTAL PRICE **\$15,697.50**

C & W engineering Inc.

Consulting Engineers – Electrical • HVAC • Plumbing

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

January 14, 2025

Mr. John Cairnes, P.E.
Mock Roos and Associates
5720 Corporate Way
West Palm Beach FL 33407

Subject: Town of Palm Beach A-43 Pump Station Rehabilitation
Electrical Design Proposal
C&W Ref. 256801

Dear John:

I am pleased to submit this proposal for your consideration to provide Electrical Design Engineering Services for the Town of Palm Beach A-43 Pump Station. The proposal scope is to provide design to convert the existing pump station into a wetwell pumping station. Raised electrical equipment that is erected above the flood zone to meet resiliency requirements. The existing pump station's wetwell would be kept operational and be used for bypass during the construction. The proposed design is based on the following:

1. Reuse existing power company point of power service.
2. Design new service, meter, main disconnect and pump control panel (rack mounted) that meets flood elevation requirements, including elevated platform for maintenance and code compliance. All equipment shall be NEMA 4X stainless steel.
3. Include outdoor rated ATS switch and reuse the existing 125kW outdoor generator and Convault diesel fuel tank. Generator may need to be placed on an elevated platform to meet flood elevation requirements.
4. Provide RTU telemetry based on Town's SCADA pack PLC system.
5. Provide new wetwell level controls (floats and Contegra or similar Level Transmitter).
6. Provide new raceways and wire as required.
7. Provide pump station control panel with built-in MTS switch and generator receptacle to provide additional resiliency in the event pump station generator fails.

8. Provide new grounding as required.
9. Provide terminal j-boxes as required for resiliency
10. Provide new area light (switched controlled).

ELECTRICAL DESIGN

C&W Engineering will provide Electrical Engineering to prepare documents suitable for bidding, construction and permitting.

Coordination

- Mock Roos and Associates
- Owner
- Field Coordination
- 1 Meeting with Owner

Prepare Drawings

- Site Plan with details on equipment demolition
- Detailed Plan with new and existing equipment
- Online Diagram
- Control Systems design with new control panel
- ATS and generator equipment
- Conduit and Wire Design
- Elevation details as needed for new equipment elevation
- Electrical Schedules
- Electrical and Schematics
- Site light and other details as may be required

Prepare Technical Specifications

- Electrical General Requirements
- Basic Materials and Methods
- ATS and reuse generator equipment
- Pump Station Control Panel
- Pump Station PLC RTU Panel
- Other Specs as may be required

Provide a 30%, 90% and Final Opinion of Cost

Attend review meeting at 30%, 90% and final

Construction phase services are not included in this proposal, and these would be provided at a later time.

BIDDING SERVICES

Attend a Prebid meeting
Respond to bidder questions and issue clarifications
Help review bids once these are turned in.

ELECTRICAL DESIGN FEE:	\$16,500 lump sum.
<u>BIDDING SERVICES FEE:</u>	<u>\$ 2,000 lump sum.</u>
TOTAL FEE	\$18,500 lump sum

I trust the scope and fee are in agreement with your needs and expectations.
Please contact me with questions or comments. Thanks for this opportunity.

Very truly yours,

C&W Engineering Inc.



Michael Guida, P.E.

CC:JLR/nl/file



February 14, 2025

John Cairnes, P.E.
Mock, Roos & Associates, Inc.
570 Corporate Way
West Palm Beach, FL 33407

Re: A-43 Wastewater Lift Station Rehabilitation –Structural Engineering and Landscape Services

Dear Mr. Cairnes,

Kimley-Horn and Associates, Inc. ("Kimley-Horn" or "Consultant") is pleased to submit this letter agreement (the "Agreement") to Mock, Roos & Associates, Inc. ("Client") for providing engineering services for the above referenced project.

Project Understanding

The Client will be performing engineering design services as prime consultant to the Town of Palm Beach ("Town") for the rehabilitation of the A-43 wastewater Lift Station in Palm Beach. Kimley-Horn will be providing structural engineering services and landscape design services as a sub-consultant to the Client. The existing lift station consists of a split underground structure with an influent wet well side and a pump dry well side. Atop the underground structure is the electrical building. The project will reconfigure the lift station and repurpose the existing dry well into the new wet well. Depending on the storage requirements, the new wet well will either consist of the repurposed existing drywell or a precast structure will be inserted into the existing dry well. New penetrations may also be added through the structural wall dividing the existing wet and dry well to facilitate flow in the new configuration. The existing electrical building will be demolished. The electrical controls will be placed above the flood elevation and require a maintenance platform for access. The existing wet/dry well top slab will be demolished and reconstructed in a new configuration. The existing generator will also be elevated above the flood elevation. In addition to the structural elements associated with the lift station rehabilitation, the Client has also requested landscape services be provided. Landscape services will consist of a landscape plan to add a screening hedge along South Ocean Boulevard to shield the electrical/controls as well as the generator.

Scope of Services

Task 1 – A-43 Lift Station - Structural Design Services

Kimley-Horn will attend a kickoff meeting with the Town and the Client. Kimley-Horn will perform one (1) site visit to review the condition of the wet well structure interior and to quantify the extent of the repairs to be addressed in the repair documents in the event the existing dry well is repurposed into the new wet well. Site visits will include two (2) Kimley-Horn staff members. Kimley-Horn will require assistance from the Town for a confined space entry. The Town shall provide operations staff, an entry

supervisor, ventilation and gas detection equipment, and extraction equipment. Kimley-Horn will provide personal protection equipment for any Kimley-Horn staff entering the confined space.

Kimley-Horn will perform design services to prepare improvement/rehabilitation plans and specifications for the A-43 Wastewater Lift Station. We will review record information provided by the Town.

Kimley-Horn will prepare structural calculations that consist of the following:

- Structural calculations for the modified generator support structure
- Structural calculations for the electrical equipment maintenance platform(s)
- Structural calculations for the proposed wet well top slab
- Structural evaluation of wet well walls for removal of top slab
- Structural evaluation of the existing wet/dry well under proposed configurations with penetrations through existing divider wall

Lift Station improvement/rehabilitation drawings and technical specifications will be provided to the Client for incorporation into the contract documents suitable for construction and submittal to the Town's Building Department containing the following information:

- Structural notes and specifications
- Structural site plan
- Structural rehabilitation plan and details for the existing wet well and dry well
- Structural plan and details for new wet well top slab
- Structural details for the modified generator support structure
- Structural plan and details for the electrical equipment maintenance platform
- Structural details

Project Submittals will include a 90% submittal (for review/comment and Building Department submittal), and Final Bid Documents for bidding by the Town. A maintenance platform to access the generator is not included within this scope of services. Opinions of probable construction cost for the structural improvement/repair elements will be provided at the 90% and Final submittals. We will provide signed and sealed plans for submittal to the Building Department and address up to one round of reasonable Building Department comments.

Task 2 – A-43 Lift Station - Landscape Architecture Services

Kimley-Horn will provide landscape architectural services for screening electrical equipment and above ground generator along South Ocean Boulevard at the A-43 Lift Station. A Kimley-Horn landscape architect will attend one kick off meeting with the Client and Town to discuss the project landscaping goals. We will visit the site to review and inventory the existing landscape. Landscape architecture services are limited to the following:

- Preparation of schematic design (Pre 90%) of proposed planting improvements for initial coordination
- Attend up to two meetings with the Town to coordinate planting improvements
- Prepare construction documents for proposed improvements based on the Town feedback received during schematic coordination including:
 - Tree Disposition Plans
 - Landscape Plans
 - Landscape Details and Notes
 - Irrigation Plans
 - Irrigation Details and Notes

Project Submittals will include a 90% submittal (for review/comment and Building Department submittal), and Final Bid Documents for bidding by the Town. Opinions of probable construction cost for the proposed landscape elements will be provided at the 90% and Final submittals. We will provide signed and sealed plans for submittal to the Building Department and address up to one round of reasonable Building Department comments.

Kimley-Horn will prepare up to two visuals (elevation and/or plan view) for the Town to present at the ACROM meeting.

Additional Services

Any services not specifically provided for in the above scope will be billed as additional services and performed at our then current hourly rates. Services that we can provide are as follows:

1. Utility Coordination
2. Public involvement/public outreach
3. Design and detailing of temporary sheet pile walls or cofferdams
4. Mechanical Engineering
5. Hydraulic Engineering
6. Civil Engineering
7. Permitting Assistance beyond what is described in the scope of services
8. Bid Phase Services
9. Construction Phase Services
10. ARCOM Meeting attendance

Information Provided by Client

We shall be entitled to rely on the completeness and accuracy of all information provided by the Client or the Client's consultants or representatives. The Client shall provide all information requested by Kimley-Horn during the project, including but not limited to the following:

1. Field reports completed by the Client

2. Existing As-Built plans
3. Existing Tree Survey
4. Coordination of meetings for the project
5. AutoCAD borders/CADD standards for the project
6. AutoCAD base files for the pump station and outfall structure, if available
7. Access to the site

Fee and Expenses

Kimley-Horn will perform the scope of services for the total lump sum fee of \$59,609. All permitting, application, and similar project fees will be paid directly by the Client.

Task 1 – A-43 Lift Station - Structural Design Services	\$39,894
<u>Task 2 – A-43 Lift Station – Landscape Architecture Services</u>	<u>\$19,714</u>
Total	\$59,609

Lump sum fees will be invoiced monthly based upon the overall percentage of services performed. Payment will be due within 25 days of your receipt of the invoice and should include the invoice number and Kimley-Horn project number.

Closure

In addition to the matters set forth herein, our Agreement shall include and be subject to, and only to, the attached Standard Provisions, which are incorporated by reference. As used in the Standard Provisions, "Consultant" shall refer to Kimley-Horn and Associates, Inc., and "Client" shall refer to Mock, Roos & Associates, Inc.

Kimley-Horn, in an effort to expedite invoices and reduce paper waste, submits invoices via email in an Adobe PDF format. We can also provide a paper copy via regular mail if requested. include the invoice number and Kimley-Horn project number with all payments. Please provide the following information:

_____ Please email all invoices to _____

_____ Please copy _____

If you concur in all the foregoing and wish to direct us to proceed with the services, please have authorized persons execute both copies of this Agreement in the spaces provided below, retain one copy, and return the other to us. We will commence services only after we have received a fully-executed agreement. Fees and times stated in this Agreement are valid for sixty (60) days after the date of this letter.

We appreciate the opportunity to provide these services to you. Please contact me if you have any questions.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.



By: Jerry Piccolo, P.E.
Project Manager

Attachment – Standard Provisions

**Mock, Roos & Associates, Inc.
A Corporation**

By:

_____, President/Vice President

(Date)

(Print or Type Name)

(Email Address)

Attest:

_____, Secretary/Assistant Secretary

(Print or Type Name)

ESTIMATE FOR ENGINEERING SERVICES

PROJECT:	A-43 Wastewater Lift Station Rehabilitation										SHEET	1 of 1
CLIENT:	Mock-Ross & Associates, Inc.										FILE NO.	
ESTIMATOR:	JP3										DATE:	02/14/25
											ALLOCA	0.0000
DESCRIPTION:	DIRECT LABOR (MAN-HOURS)											
See Scope of Services	Principal Engineer	Chief Engineer	Senior Engineer	Senior Prof. Eng.	Reg. Prof. Engineer	Eng. Int.	Technician	Admin/Clerical	Senior Designer	SUB	EXP	LINE TOTAL
TASK 1 - A-43 Lift Station - Structural Design Services												\$39,894
Kick off meeting			2.0		2.0							\$792
Site Visit/Wetwell review (A-43)			5.0		5.0							\$1,979
Structural Calculations												
Elevated Generator Support Structure			2.0		6.0							\$1,451
Electrical Equipment Maintenance Platform			4.0		16.0							\$3,561
Wet Well Top Slab			2.0		6.0							\$1,451
Evaluate wet well walls for top slab removal	1.0		6.0		18.0							\$4,660
Evaluation of existing wet well for penetrations through divider wall	1.0		4.0		12.0							\$3,209
Plan Preparation												
General Structural Notes and Specifications			1.0		2.0	4.0						\$1,088
Structural Site Plan			2.0		4.0	8.0						\$2,176
Wet well Rehabilitation Plan and Details			2.0		4.0	8.0						\$2,176
Wet Well Top Slab Details			2.0		6.0	16.0						\$3,560
Existing Wet well divider wall modification details			2.0		3.0	8.0						\$2,011
Generator Support Structure Plan and Section			1.0		3.0	8.0						\$1,780
Electrical Equipment Maintenance Platform Framing, Sections, and Details			2.0		6.0	18.0						\$3,824
Misc Structural Details			4.0			8.0						\$1,979
90% and Final submittals			2.0			6.0		1.0				\$1,346
90% and Final OPC			2.0			6.0						\$1,253
Building Department Submittal/Comments			2.0			6.0		1.0			\$250	\$1,596
TASK 2 - A-43 Lift Station - Landscape Architecture Services												\$19,714
Kick off meeting			2.0		2.0							\$792
Site Visit			5.0		5.0							\$1,979
Schematic Design - Pre-90%			1.0		2.0	6.0						\$1,352
Plan Preparation - 90%												
Tree Disposition Plan			1.0		2.0	4.0						\$1,088
Landscape Plan			2.0		4.0	8.0						\$2,176
Landscape Details and Notes			1.0		2.0	4.0						\$1,088
Irrigation Plan			2.0		4.0	8.0						\$2,176
Irrigation Details and Notes			1.0		2.0	4.0						\$1,088
Meetings (2)			6.0			6.0						\$2,178
Final Submittal			2.0			6.0		1.0				\$1,346
90% and Final OPC			2.0			6.0						\$1,253
Building Department Submittal/Comments			1.0			2.0						\$495
ARCOM Graphic Preparation			2.0		4.0	12.0						\$2,703
												\$0
TOTAL HOURS	2.0	0.0	75.0	0.0	120.0	162.0	0.0	3.0	0.0	0	\$250.00	\$59,609
LABOR (\$/HOUR)	\$307.28	\$293.55	\$231.09	\$200.85	\$164.80	\$131.84	\$149.71	\$92.80	\$162.15	1.00	1.0	
ALLOCATION	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00	0.00	
TOTALS	\$615	\$0	\$17,332	\$0	\$19,776	\$21,358	\$0	\$278	\$0	\$0	\$250	\$59,609