

## **TASK ORDER NO. 4**

**Dated this 21<sup>st</sup> day of May 2019**

### **FORT LAUDERDALE PUBLIC WORKS DEPARTMENT FORT LAUDERDALE AQUATIC CENTER RENOVATION CITY PROJECT #12315**

#### **PROFESSIONAL SERVICES**

This Task Order between the City of Fort Lauderdale, a Florida municipal corporation ("CITY") and Wood Environment & Infrastructure Solutions, Inc., a Nevada corporation authorized to transact business in the State of Florida, f/k/a Amec Foster Wheeler Environment & Infrastructure, Inc., ("CONSULTANT"), is pursuant to the Construction Engineering Inspection Services Agreement No. 466-11730-1 dated February 7, 2017 and expiring February 6, 2020 with one remaining option to renew ("MASTER AGREEMENT").

The purpose of this task order will be to provide Special Inspection and Materials Testing Services. Please refer to Exhibit "C" for Pile Inspection Services delineation.

#### **PROJECT BACKGROUND**

The project site is located at 501 Seabreeze Boulevard, Florida 33316. The project includes, but is not limited to, the removal of an existing 50-meter main competition pool to provide a new expanded fully FINA compliant competition pool with two moveable stainless bulkheads; removal of the existing diving pool and underground observation room to provide a new fully FINA compliant diving pool, with dive tower, including five platform levels. The project also includes elevated bleachers for the approximate capacity of 550 spectators, on the west side of the dive pool, removal of the existing spa for divers, to provide a new covered spa, repatriation of the existing 50-meter training pool with new surfacing and gutters, removal of the existing instructional pool to replace with an expanded instructional pool, removal of the existing grandstand building and bleachers on the north side of facility to provide a new grandstand with spectator restrooms, concessions, ticket office, and bleachers for a capacity of approximately 1,500 spectators. In addition, the project includes a new pool deck and gutters system; new pool deck and drain system and the improvements associated to the existing parking that include asphalt, drainage system, utility connections, landscaping, and planters. See Exhibit A for Project Location.

#### **SCOPE OF SERVICES AND DELIVERABLES**

This Task Order will include Special Inspection Services and Materials Testing Services for the Fort Lauderdale Aquatic Center Renovation. The following scope is based on an effort of 18 months for construction/contract time, and on total hours specified in attached breakdown. The scope of services to be provided is for special inspection, onsite testing, and laboratory testing services. Any additional time required beyond that specified above will require an approved amendment to this Task Order.

##### **Task 1.0 – Onsite Inspection & Testing Services**

The CONSULTANT shall provide onsite inspection services during construction of the project.

CONSULTANT services shall include the following:

- a) Monitor the Contractor's on-site construction activities and inspect materials entering into the work in accordance with the plans, specifications, and special provisions for the Construction Contract to determine that the project is constructed in conformity with the plans and specifications.
- b) Perform full-time inspections, of Contractor's work activities, for compliance with the Contract Documents.
- c) Maintain detailed accurate records of the Contractor's daily operations and of significant events that affect the work.
- d) Participate in the substantial completion inspection for the project. Verify all work is substantially complete and notify CITY PM of same.
- e) Participate in final inspection of the project. Verify all work is complete and in conformance with the plans and specifications.
- f) Monitor all testing and inspections performed by the Contractor are in accordance with the plans and specifications, contractual requirements, engineering principles, and industry standards.
- g) Provide copies of all inspection reports to the EOR and CITY on a weekly basis.

**Soils:**

- a) Provide a CTQP earthwork Level I certified inspectors to perform in-place density tests with a nuclear gauge.
- b) Perform field density testing of embankment in accordance with the frequency stated in the project specification.
- c) Perform field density test of stabilizing subgrade in both cut and fills in accordance with the project specification.

**Concrete:**

- a) Provide certified ACI technician to sample concrete in the field during placement, mold cylindrical specimens for compressive strength testing and perform plastic properties tests in general accordance with the project Specifications.
- b) Certified technician will be present and perform tests throughout the placement operation at the frequency indicated in the project specification. Including sampling, molding of compressive strength test specimens in 4 inches by 8-inch cylinders, plastic property testing (air content, temperature and slump).

**Asphalt Paving:**

- a) Provide a CTQP certified Asphalt level II roadway inspector to travel to the construction site and provide quality control inspections during the placement of asphalt. The inspector will complete the QC field roadway inspection reports as required by the FDOT. We will not be responsible for the performance of density testing of the asphalt or coring of the asphalt for QC sampling; this is anticipated to be performed by the asphalt supplier.
- b) Monitor the mix temperature for the first 5 loads and every 5th load from there on. The mix temperature at the roadway will be documented as per FDOT Specifications, and in accordance with specifications to document compliance with the master temperature range and the established mix temperature at the roadway operations only. City representatives will be notified if the mix temperature fails to meet the criteria and will be rejected as required by the specification.

- c) Monitor the mix spread rate at the beginning of each day's production.
- d) Document tack or prime temperature and spread rate as per specification. The temperature from the tanker will be recorded at the time of application. All calibration charts for prime/tack tankers must be provided to AMEC at least one day prior to the application and it is expected that the trucks be clearly marked so that they may be associated with the appropriate calibration chart. Thermometers must also be operable and visible to the technician.
- e) Perform cross slope checks at a frequency of one measurement every 100 feet during paving operations. The cross-slope measurements will be provided to the City representatives so that they become aware when in-place conditions are outside the acceptable range.

#### **Asphalt Plant:**

- a) Provide a Plant Laboratory Technician with CTQP Asphalt Plant Level II qualification that will be assigned to the approved production plant for the performance of the following testing activities on an as needed basis:
  - Sampling Bituminous Paving Materials
  - Asphalt Ignition Oven
  - Maximum Specific Gravity of Bituminous Paving
  - Gyratory Compaction
  - Mechanical Analysis of Extraction Aggregate
  - Bulk Specific Gravity

#### **Threshold Inspection:**

- a) We propose to provide a Special Inspector and an Authorized Representative on periodic (Part-time) schedule in accordance with the Structural Threshold Inspection Plan. We will verify that the primary structural frame is constructed in substantial accordance with the permitted official contract documents, except where variations are permitted in writing by the Structural Engineer of Record. Our inspection and observation scope include the following areas of work in accordance with the Structural Threshold Inspection Plan:
  1. Foundations (excludes piles)
  2. Cast-in-Place Reinforced Concrete and Pre-cast Concrete
  3. Concrete Masonry Units (Reinforced Masonry)
  4. Structural Steel
  5. Welded and bolted connections

**Deliverables:** The following deliverables shall be provided under Task 1.0:

- a) Daily inspection reports of site visits and work inspected. Reports to be submitted at a minimum once a week for the five-day work week.

Task 1.0 is estimated at a **Not to Exceed** amount of **\$268,140**.

#### **DATA OR ASSISTANCE TO BE PROVIDED BY THE CITY**

- a) Reproduce and distribute the contract documents to the consultant and contractor

- for execution;
- b) Prepare notice to proceed for the contractor;
- c) Accounts Payable contractor's pay applications;
- d) Commission approve change order requests;
- e) Issuance of Directives (as indicated in item c));
- f) Coordination efforts of EOR;
- g) Site access coordination;
- h) Scheduling of pre-con meeting;
- i) Material and Geotechnical testing,
- j) Certification/Permit Fees

### **PERFORMANCE SCHEDULE**

The CONSULTANT shall commence services immediately after the written Notice to Proceed. Construction support services are budgeted for 18 months in duration or earlier if the project has reached substantial completion, but this duration is not in the Consultant's control as it is dependent on the contractor's schedule. The time of completion of this Task Order may be extended if agreed upon by both the City and Consultant.

### **METHOD OF COMPENSATION**

The services performed will be accomplished using the Not-to-Exceed method of compensation. The total hourly rates payable by the CITY for each of CONSULTANT's employee categories, reimbursable expenses, if any, and sub-consultant fees, if any, are shown on **Exhibit B** attached hereto and made a part hereof. Pay application requests shall be prepared on the CITY's approved pay application request form. The CONSULTANT shall submit the pay application request to the CITY's Project Manager for review and approval. Once the CITY's Project Manager approves the CONSULTANT's pay application request, the CONSULTANT may submit it to the CITY's accounts payable department via email to [AcctsPayable@fortlauderdale.gov](mailto:AcctsPayable@fortlauderdale.gov). Pay application requests shall be submitted on a monthly basis.

### **TERMS OF COMPENSATION**

Services will be provided for the following Not-to-Exceed amounts:  
Exhibit B is the estimate in the total amount of **\$268,140** to perform the required inspection work. It is recognized that the attached are estimated costs and that the work may vary due to changes to that task work order or be amended to meet additional requirements.

### **CONTACTS**

#### **CITY CONTACTS**

Requests for payments should be directed to City of Fort Lauderdale Accounts Payable via e-mail to [AcctsPayable@FortLauderdale.gov](mailto:AcctsPayable@FortLauderdale.gov) after getting approval from the CITY's Project Manager. All other correspondence and submittals should be directed to the attention of Tom Green, P.E., Project Manager at the address shown below. Please ensure that all correspondence refers to the City project number and title as stated above.

**Tom Green P.E.**

Community Redevelopment Agency  
City of Fort Lauderdale

914 NW 6<sup>th</sup>  
Fort Lauderdale, FL 33311  
(954) 828-4008

[TGreen@fortlauderdale.gov](mailto:TGreen@fortlauderdale.gov)

**CONSULTANT CONTACTS**

Alexander Rojas, P.E.

Wood Environment & Infrastructure Solutions, Inc.

901 Northpoint, Suite 204

West Palm Beach, FL 33407

Phone: 561-242-7713

Email: [Alexander.Rojas@Woodplc.com](mailto:Alexander.Rojas@Woodplc.com)

**SUB-CONSULTANT CONTACTS**

Carlos H. Ortiz, PE

Langan Engineering and Environmental Services

110 East Broward Boulevard, Suite 1500

Fort Lauderdale, FL 33301

Phone: 954.320-2100

Email: [Cortiz@Lnagan.com](mailto:Cortiz@Lnagan.com)

**[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]**

IN WITNESS OF THE FOREGOING, the parties execute this Task Order No. 4 as follows:

ATTEST:

**CITY:**

CITY OF FORT LAUDERDALE, a  
Florida municipality

By: \_\_\_\_\_  
JEFFREY A. MODARELLI  
City Clerk

By \_\_\_\_\_  
Christopher J. Lagerbloom, ICMA-CM  
City Manager

Approved as to form:

\_\_\_\_\_  
RHONDA MONTOYA HASAN  
Assistant City Attorney

**CONSULTANT**

WITNESSES:

Wood Environment & Infrastructure  
Solutions, Inc., a Nevada corporation  
authorized to transact business in Florida

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Print Name

By: \_\_\_\_\_  
Lytle C. Troutt, Jr.  
President – East US & LA

ATTEST:

\_\_\_\_\_  
Bradley J. Knight, Secretary

(CORPORATE SEAL)

STATE OF \_\_\_\_\_:  
COUNTY OF \_\_\_\_\_:

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 2019, by **Lytle C. Troutt, Jr.** as **President – East US and LA** of **Wood Environment & Infrastructure Solutions, Inc.**, a Nevada corporation authorized to transact business in the State of Florida, who is ☐ personally known to me or ☐ has produced \_\_\_\_\_ as identification.

(SEAL)

\_\_\_\_\_  
(Signature of Notary Public)  
Notary Public, State of \_\_\_\_\_

\_\_\_\_\_  
Name of Notary Typed, Printed or Stamped

My Commission Expires: \_\_\_\_\_  
Commission Number: \_\_\_\_\_

## Exhibit A Project Location





# EXHIBIT B

## Contract Billing Rates

WOOD Engineering Services	Hourly Billing Rate	Unit	Quantity	Total Fee
Senior Engineer/Professional	\$ 165.00	Hourly	60	\$ 9,900.00
Project Manager	\$ 150.00	Hourly	50	\$ 7,500.00
Secretary / Clerical	\$ 65.00	Hourly	59	\$ 3,835.00
Service Total				\$ 21,235.00
WOOD Field Personnel	Hourly Billing Rate	Unit	Quantity	Total Fee
Engineering Technician	\$ 65.00	Hourly	1282	\$ 83,330.00
Senior Engineering Technician	\$ 75.00	Hourly	0	\$ -
Senior Inspector	\$ 95.00	Hourly	376	\$ 35,720.00
Service Total				\$ 119,050.00
WOOD Materials Testing Services	Unit Price	Unit	Quantity	Total Fee
Trip Charge	\$ 70.00	EACH	542	\$ 37,940.00
301-Concrete Compressive strength of Grout\Mortar ASTM C109	\$ 15.00	EACH	180	\$ 2,700.00
302-Concrete Cylinder Curing Capping and Breaking ASTM C39	\$ 15.00	EACH	645	\$ 9,675.00
Air Content Tests ( ASTM C173 or ASTM C231 )	\$ 35.00	EACH	0	\$ -
810-Soils Limerock Bearing Ratio (LBR) FM 5-515	\$ 350.00	TEST	5	\$ 1,750.00
812-Soils Materials Finer than 200 Sieve FM 1-T011	\$ 35.00	TEST	15	\$ 525.00
819-Soils Organic Content Ignition FM 1 T-267	\$ 35.00	TEST	15	\$ 525.00
826-Soils Plastic Limit & Plasticity Index AASHTO T90	\$ 50.00	TEST	15	\$ 750.00
827-Soils Proctor Modified FM 1-T180	\$ 120.00	TEST	10	\$ 1,200.00
Service Total				\$ 55,065.00
WOOD Auger Cast Pile Testing	Hourly Billing Rate	Unit	Quantity	Total Fee
Engineering Technician	\$ 65.00	Hourly	216	\$ 14,040.00
Trip Charge	\$ 70.00	EACH	27	\$ 1,890.00
301-Concrete Compressive strength of Grout\Mortar ASTM C109	\$ 15.00	EACH	324	\$ 4,860.00
Service Total				\$ 20,790.00
Langan Engineering _ Auger Cast Pile Monitoring(See Exhibit C)	Hourly Billing Rate	Unit	Quantity	Total Fee
Test ACIP Pile Program				\$ 19,000.00
Production ACIP Pile Program				\$ 28,000.00
Production Helical Pile Program				\$ 5,000.00
Service Total				\$ 52,000.00
Project Total				\$ 268,140.00

Exhibit C  
LANGAN Proposal for  
Test Pile & Production Pile Involvement

10 April 2019

Thomas Green  
City of Fort Lauderdale  
100 N Andrews Ave  
Fort Lauderdale, FL 33301

**RE: Proposal for Test Pile & Production Pile Involvement  
Fort Lauderdale Aquatic Complex (FLAC)  
1 Hall of Fame Drive, Fort Lauderdale, Florida  
Job No. 330036801**

Dear Tom:

Langan Engineering and Environmental Services, Inc. (Langan) is submitting this proposal to City of Fort Lauderdale ("the Client") to provide geotechnical engineering services during the test and production pile programs for the Fort Lauderdale Aquatic Complex ("the Project") in Fort Lauderdale, Florida. This proposal is based on the schedule/durations described under the pertinent tasks.

#### **SCOPE OF SERVICES**

Our scope of services for the project includes the following tasks:

##### **TASK 1 - AUGERED CAST-IN-PLACE (ACIP) TEST PILE PROGRAM**

As part of this task, we would review the piling contractor's test pile submittals and provide comments. In addition, we would observe and document the installation of the test piles, and the subsequent load tests. Per our 20 March 2019 Design Submission Geotechnical Engineering Study Report, we have accounted for one standard compression load test and one standard tension load test for the 18-inch-diameter pile and one standard compression load test and one standard tension load test for the 14-inch-diameter pile. The test pile installation activities also include the reaction piles required by the piling contractor for the purpose of load testing. Our services will include our presence during all test and reaction pile installations, and during load testing. We will monitor each test pile during load testing to obtain the required test information for evaluation.

During the 2-week test pile installation period provided by Hensel Phelps, we have assumed that our presence will be required on site for 4 to 5 days for the installation of test and reaction piles. During the 3-week load testing period provided by Hensel Phelps, we have assumed that our presence will be required on site for a total of 10 to 12 days. We have also based this proposal on an assumed daily site presence duration of 8 to 9 hours, plus travel time.

Upon completion of the load testing, we will summarize the test pile installation and the load testing results as part of a report for submittal by others to the building department.

##### **Task 2 - Production ACIP Pile Program**

As part of this task, we would review the piling contractor's production ACIP pile submittals and provide comments. During the production ACIP pile installation work, we will observe the installation of each production pile and determine the required tip elevation at each pile location based on our subsurface exploration, the results of the load testing program, and the installation characteristics at each pile location. Our fee has been estimated based on the pile installation work being completed within 25 full-time days of work (including field and daily travel time), which is based on the five week

production pile period duration provided by Hensel Phelps. If the selected foundation contractor is not capable of achieving this type of production rate and more time than what has been allotted is required, the additional time will be billed at a rate of \$900 per day. Upon completion of the production pile installation work, we will summarize the production pile installation work as part of a formal report for submittal to the building department.

### **TASK 3 - PRODUCTION HELICAL PILE PROGRAM**

As part of this task, we would review the piling contractor's production helical pile submittals and provide comments. During the production helical pile installation work, we will observe the installation of each production helical pile and document that the required installation torque is achieved at each pile location. Our fee has been estimated based on the pile installation work being completed within 3 full-time days of work (including field and daily travel time), which is based on assumed average daily production rates of 3-4 helical piles per day. The duration for this work was not provided by Hensel Phelps but we have made the above assumption for the purpose of this proposal. If the selected foundation contractor is not capable of achieving this type of production rate and more time than what has been allotted is required, the additional time will be billed at a rate of \$900 per day. Upon completion of the production helical pile installation work, we will summarize the production helical pile installation work as part of a formal report for submittal to the building department.

### **FEES**

Our estimated fees for the above-described tasks are presented below.

<b>Task 1 - Test ACIP Pile Program</b>	<b>\$ 19,000</b>
<b>Task 2 - Production ACIP Pile Program</b>	<b>\$ 28,000</b>
<b>Task 3 - Production Helical Pile Program</b>	<b><u>\$ 5,000</u></b>
<b>PROPOSAL TOTAL=</b>	<b>\$52,000</b>

We will bill for our services on a monthly basis. Payment of all invoices is due within 30 days of receipt. We reserve the right to stop our work if three or more monthly invoices are outstanding.

Our services would be invoiced and accomplished on an hourly basis in accordance with our previously agreed upon Schedule of Fees/Rate schedule which was utilized at the recent Las Olas Parking Garage Expansion project. These agreed upon rates are included in the table below along with some intermediate classifications and rates, which would be applicable for various personnel not included in the prior rate schedule.

Billing Category	Hourly Billing Rate
Technician/Administrative Assistant	77
Staff Engineer/Inspector	80
Senior Staff Engineer	110
Senior Project Manager/Project Manager	165
Associate	175
Principal/Senior Associate	180
Senior Principal	210

**EXCLUSION**

The scope of work in this proposal does not include pile grout sampling or testing. Grout sampling will be necessary during the installation of test and production ACIP piles. It is our understanding that the City of Fort Lauderdale will contract a materials testing firm for these services.

**AUTHORIZATION**

We hope this proposal is satisfactory to your needs and we thank you for the opportunity to provide our services for this project. We presume you would issue a contract for our review and subsequent authorization. If you have any questions regarding this proposal, please call us at (786) 264-7200.

Sincerely,

**Langan Engineering and Environmental Services**



Carlos H. Ortiz, P.E.  
Associate



Matthew E. Meyer, P.E., D.GE.  
Principal

CHO/MM:co

FL Certificate of Authorization No. 6601

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## Breakdown Table for Langan's 10 April 2019 Proposal for Test & Production Pile Involvement

Billing Category	Hourly Billing Rate	Hours Estimated Per Billing Category			Subtotals			Remarks
		Task A	Task B	Task C	Task A	Task B	Task C	
Technician/Administrative Assistant	\$77							See Note 4
Staff Engineer/Inspector	\$80	175	275	30	\$ 14,000	\$ 22,000	\$ 2,400	See Note 1
Senior Staff Engineer	\$110	26	30	12	\$ 2,860	\$ 3,300	\$ 1,320	See Note 2
Senior Project Manager/Project Manager	\$165							See Note 4
Associate	\$175	12	15	7	\$ 2,100	\$ 2,625	\$ 1,225	See Note 3
Principal/Senior Associate	\$180							See Note 4
Senior Principal	\$210							See Note 4
				Task Totals	\$ 18,960	\$ 27,925	\$ 4,945	
				<b>Proposal</b>	<b>\$ 19,000</b>	<b>\$ 28,000</b>	<b>\$ 5,000</b>	

Notes:

- The anticipated field time for the Staff Engineer/Inspector billing category is based on the following scheduling and duration assumptions:
  - Task 1 - Test ACIP Pile and Load Testing Program - 5 days of Langan field presence during 2 week test pile installation period (11 hours per day for field plus travel time to/from site) and 12 days of Langan field presence during 3 week load testing period (10 hours per day for field plus travel time to/from site)
  - Task 2 - Production ACIP Pile Program - 5 days of Langan field presence per week for 5 week period (11 hours per day - field plus travel time to and from site)
  - Task 3 - Helical Pile Installation – 3 days of Langan field presence (assumed 10 hours per day - field plus travel time to and from site)
- The anticipated time for the Senior Staff Engineer billing category includes office-related documentation and review associated with the field work, and final reports draft preparation.
- The anticipated time for the Associate billing category includes general project management, review of pile-related submittals and review of the final reports.
- The additional billing categories not assigned amount of hours are provided to set the billing rates for these employee levels just in case employees at these levels have to be engaged during the process of providing these services. The total task budgets would not be exceeded in this case, unless the scope of work or durations discussed above are increased.



April 30<sup>th</sup>, 2019

Tom Green, PE  
City of Fort Lauderdale  
100 N. Andrews Avenue  
Fort Lauderdale, FL 33301

Dear Mr. Green,

Wood Environment and Infrastructure Solutions, Inc. is requesting City approval to add the following team member with the rates listed below to the Agreement between the City of Fort Lauderdale, a Florida Municipality (CITY) and Wood Environment and Infrastructure Solutions, Inc, a Nevada Corporation, (CONSULTANT) for Test Pile and Production Pile Involvement on the Fort Lauderdale Aquatic Complex, City project no. 12315.

Langan Engineering and Environmental Services  
110 East Broward Boulevard, Suite 1500  
Fort Lauderdale, FL 33301  
954.320.2101

Billing Category	Hourly Billing Rate
Technician/Administrative Assistant	\$ 77.00
Staff Engineer/Inspector	\$ 80.00
Senior Staff Engineer	\$ 110.00
Senior Project Manager/Project Manager	\$ 165.00
Associate	\$ 175.00
Principal / Senior Associate	\$ 180.00
Senior Principal	\$ 210.00

Please feel free to contact us should you have any questions.

Regards,

  
Alexander Rojas, PE  
Project Manager

#### ACCEPTANCE OF REQUEST

Name: JOE KENNEY Signature:   
Title: ASST. DIRECTOR OF PUBLIC WORKS Date: 5/13/19

Wood Environment and Infrastructure Solutions, Inc.  
901 Northpoint Parkway, Suite 204  
West Palm Beach FL, 33407  
561.242.7713