City of Jacksonville, Florida

Lenny Curry, Mayor

Department of Public Works
Engineering & Construction Management Division
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ONE CITY. ONE JACKSONVILLE.

November 14, 2018

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

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

11/26/18 09:50:33
Procurement Division

FROM: Ed Starnes, P. E., J.D.
Acting Chief, Engineering and Construction Management

Robert Skalitzky, Chief
Natural and Marine Resources

SUBJECT: P-52-17 Professional Services for Dock Inspections and Designs
Contract # 8567-02 Amendment 4
RPWF165-06505---AFA017-01

Modification to the Sovereign Submerged Land Lease is needed for the new floating dock at the Friendship Fountain site. In addition, based on the initial Pile Integrity Testing (PIT), further geotechnical exploration is needed for the Northbank Riverwalk. Negotiations have resulted in the attached Scope of Services, O and P and Fee Summary, Exhibit Q. The City's JSEB program is not applicable to this project.

Accordingly, this is to recommend that Contract # 8567-02, originally executed November 14, 2017, between the City of Jacksonville and Taylor Engineering, Inc. for Professional Services for Dock Inspections and Designs, be amended to incorporate the attached Scope of Services identified as Exhibits O and P and Fee Summary, identified as Exhibit Q, to increase the not to exceed limits for: Design Services for the Trout River Floating Dock in the amount of $600.00 to a new limit of $106,401.38 and Geotechnical by $16,500 to a new limit of $55,200.00, thereby increasing the maximum indebtedness to the City by $17,100.00 to a new maximum of $704,158.15, with all other terms and conditions of the Agreement remaining unchanged.

ES/lw

Attachment: Exhibits O, P & Q

cc: Lori West, Contract Specialist

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EXHIBIT O

Scope of Work
For
City of Jacksonville
Trout River Floating Dock Relocation
Engineering and Permitting Services

INTRODUCTION

Under authorization from the City of Jacksonville (COJ) through the Third Amendment to Contract No. 8567-02, Taylor Engineering (TAYLOR) is developing final engineering design and environmental permit applications to demolish the damaged dock at the Trout River Bridge and develop a replacement floating dock at the Friendship Fountain site.

Because TAYLOR was aware that COJ was working with Arc Surveying and Mapping (ARC) to revise the sovereign submerged land lease along the Southbank, the contract amendment specifically excluded survey services necessary to develop a new sovereign submerged land lease for the dock. At this time, the COJ requests that TAYLOR subcontract with ARC and coordinate necessary revisions to the previously developed sovereign submerged land lease.

SCOPE OF WORK

TASK 1 – Modification to Sovereign Submerged Land Lease

TAYLOR's subconsultant — Arc Surveying and Mapping (ARC) — will revise its previously compiled survey products for COJ's sovereign submerged lands lease area encompassing the floating dock at Friendship Fountain. The revision will incorporate an expanded lease area to accommodate the proposed extended floating dock and water taxi mooring area. Arc will develop a signed and sealed survey in accordance with all State requirements to update and modify the lease.

TAYLOR will submit the revised survey documents with the environmental resources permit application requesting authorization to construct the extended dock at Friendship Fountain.

Because ARC and COJ have already begun coordination with FDEP to update the submerged land lease, the team expects that approval of the submitted survey documents will be forthcoming without multiple iterative agency review cycles or the need for additional survey products. If this assumption proves incorrect, TAYLOR will submit a written request for additional scope of work and funding if that becomes necessary.

SCHEDULE

TAYLOR intends to complete the project on the timeline outlined below.

No.	Task	Weeks from Start Date

Exhibit 'O'

EXHIBIT O

		1	2	3	4	5	6	7	8	9	10	11	12
	Task Timelines												
1	Modification to Sovereign Submerged Land Lease												

Exhibit 'O'

EXHIBIT P

Scope of Work
For
City of Jacksonville
Northbank Riverwalk
Engineering and Permitting Services

INTRODUCTION

Under the authorization of the City of Jacksonville (COJ) through the Second Amendment to Contract No. 8567-02, Taylor Engineering's subcontractor—ECS Florida, LLC—completed Pile Integrity Testing (PIT) to evaluate the existing piles at the Northbank Riverwalk. The results of the PIT indicated that several piles are likely cracked beneath the mudline. Taylor Engineering also completed a coastal analysis for the Northbank Riverwalk, and the results indicate that the existing 18-inch concrete guide piles would be overstressed by the forces predicted during a potential 50-year coastal storm event. Based on these findings and discussion with COJ, replacement of the Northbank Riverwalk floating dock will require replacement of all existing concrete piles with steel/concrete filled pipe piles. In support of the design effort, Taylor Engineering recommends further geotechnical exploration at the project site.

Taylor Engineering completed PIT Testing within the initial authorized budget. This change order revises the work and fee to complete geotechnical data collection at the Northbank Riverwalk.

SCOPE OF WORK

Task 1.2 – Geotechnical Exploration

TAYLOR subconsultant — ECS Florida, LLC (ECS) — will conduct a geotechnical exploration at the site. The objective of the geotechnical exploration is to provide subsurface information to evaluate the subsurface conditions at the site for the proposed construction. The team will conduct the field investigations summarized by the table below.

Location	Number of Borings	Depth of Borings Below Ground Surface
Water side borings adjacent to the floating docks[1]	5 SPT[2]	60-70 ft (below river mudline)

[1] Proposed Locations: a) Three borings riverward of Floating Dock 1 b) One boring riverward of Floating Dock 2, c) One boring riverward of Floating Dock 3
[2]Standard Penetration Test

Notably, the geotechnical investigation includes a contingency to obatin 8 -ft of rock core samples at three locations (24-ft total) in the event that bedrock is encountered during the investigation. ECS will perform laboratory classification and index property tests on selected soil samples obtained from the exploration.

A geotechnical engineer, licensed in the State of Florida, will direct the geotechnical exploration and provide an engineering evaluation of the site and subsurface conditions with respect to the planned construction and imposed loading conditions. A deliverable report will document the results of the exploration and engineering evaluation, including the following:

1. A brief discussion of the understanding of the planned construction and imposed loading conditions.
2. A presentation of the field and laboratory test procedures used and the data obtained.

Exhibit 'P'

3. A presentation of the existing on-site conditions, such as topography, surface vegetation, etc. as they relate to the planned construction.
4. A presentation of the encountered subsurface conditions, including subsurface profiles and measured groundwater levels, estimated seasonal high groundwater levels, and estimated geotechnical engineering properties (as necessary).
5. A geotechnical engineering evaluation of the site and subsurface conditions with respect to the planned construction.
6. Geotechnical design recommendations for foundation design parameters, including estimate of the performance of recommended pile foundation systems.
7. Installation recommendations for piles.

DELIVERABLES

TASK 1.2 – DATA COLLECTION

- Signed and sealed geotechnical exploration report

SCHEDULE

TAYLOR intends to complete the project on the timeline outlined below.

No.	Task	Months from Start Date											
		1	2	3	4	5	6	7	8	9	10	11	12
		Task Timelines											
1	DATA COLLECTION												

Exhibit 'P'

EXHIBIT Q

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

PART I - GENERAL	
1. Project Northbank Riverwalk Design Engineering - Additional Geotechnical Trout River Floating Dock Relocation Engineering and Permitting - Friendship Fountain SSLL	**2. Proposal No. / Contract No.** P-52-17 / 8567-02
3. Name of Consultant Taylor Engineering, Inc.	**4. Date of Proposal** 10/23/2018

PART II - LABOR RELATED COSTS

5. Direct Labor (Limiting Amount)	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principal Engineer	$ 67.87	0	$ 0.00	
Senior Professional	$ 55.41	0	$ 0.00	
Staff Professional	$ 31.48	0	$ 0.00	
Sr. CAD Manager	$ 45.90	0	$ 0.00	
Program Manager	$ 60.82	0	$ 0.00	
Admin	$ 19.67	0	0.00	
TOTAL DIRECT LABOR		0		$ -
6. Overhead (Combined Fringe Benefit & Administrative) Overhead Rate	175 % x Total Direct Labor			$ -
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				**$** -
8. PROFIT: Labor Related Costs (Item 7)		x	10%	$ -

PART III - OTHER COSTS

9. Miscellaneous Costs (Reimbursable/NTE)		
	$	
	$	
	$	
	$	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$ -
10. SUBCONTRACTS (Reimbursable/Not to Exceed)		
Arc Surveying (Friendship Circle Floating Dock SSLL)	$ 600.00	
	$	
ECS Geotechnical (Northbank Riverwalk - Additional Geotechnical)	$ 16,500.00	
SUB-CONTRACT SUB-TOTAL (Reimb/NTE)		$ 17,100.00
11. REIMBURSABLE COSTS (Limiting Amount)		
	$	
	$	
	$	
SUB-TOTAL REIMBURSABLES		$ -

PART IV - SUMMARY

TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables / Not To Exceed) (Items 5, 6, 8, 9, 10, and 11)	**$ 17,100.00**