City of Jacksonville, Florida

Lenny Curry, Mayor

Department of Public Works
Engineering & Construction Management Division
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Jacksonville, FL 32202
(904) 255-8762
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ONE CITY. ONE JACKSONVILLE.

May 2, 2019

05/09/19 12:53:28
Procurement Division

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

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

FROM: Robin G. Smith, P.E.
Acting Chief, Engineering and Construction Management

Robert Skalitzky, Chief
Natural and Marine Resources

SUBJECT: P-28-18 Professional Services for Dock Inspections and Designs
RPWF165-03410---AFA017-02

The Engineering Division has negotiated with the consultant selected for Professional Services for Dock Inspections and Designs, resulting in the Scope of Services, Exhibit A and Contract Fee Schedule, Exhibit B. The City's JSEB program is not applicable to this project. Instructions were provided for required Federal Affirmative Steps were included in the RFP.

Accordingly, this is to recommend that the City of Jacksonville enter into a contract with Applied Technology and Management, Inc. for Professional Services for Dock Inspections and Designs, that includes the attached Scope of Services identified as Exhibit "A" and Fee Schedule identified as Exhibit "B", to provide a not to exceed limit for Dock Inspections and Design in the amount of $313,904.20 with a maximum indebtedness to the City in the amount of $313,904.20 and with an expiration date of Project Completion. All other terms and conditions are as provided in the RFP and the City's standard contract language.

RGS/lw

Attachment: Exhibits A & B

cc: Lori West, Contract Specialist

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EXHIBIT A

ATM | DESIGN ENGINEERING CONSULTING

SCOPE OF SERVICES, FEE, AND SCHEDULE

DATE: March 8, 2019 (Rev. March 26, 2019)

CLIENT: City of Jacksonville, Florida
Department of Parks, Recreation and Community Services

PROJECT: **RFP No. P-28-18, Professional Design Services for Dock Inspections and Designs**

CONSULTANT: Applied Technology & Management, Inc.
411 Pablo Avenue, Jacksonville, FL 32250

OVERALL DESCRIPTION OF PROJECT

As Hurricane Irma marched across the State on September 10, 2017, it created record storm surge and peak wind gusts of 86 miles per hour in downtown Jacksonville. Many buildings and structures were damaged, including structures at the four (4) parks that are the subject of this contract.

Per ATM's recent discussions with City staff, our understanding is that this project is eligible for FEMA reimbursement based on the cost to repair or replace the identified structures back to pre-storm location and condition. Post-storm inspection reports completed by Taylor Engineering for the City in January 2018 will be utilized to the extent possible, as well as any existing design and survey information provided by the City, and incorporated into the work.

The goal of the project is to restore the four project waterfront structures to their condition prior to Hurricane Irma, and does not include improvements to improve their resiliency or increase their design level (i.e., mitigation, as FEMA considers it). Thus, materials of construction and design loads are assumed to be the same as the original, existing structures. Similarly for things like hand rails, it is assumed that elements would be replaced to match pre-Irma conditions and not upgraded even if the current building code(s) indicate such is required. It is understood that repair or replacement of any non-storm damaged elements will need to be costed separately from the potentially FEMA-reimbursable elements damaged due to Hurricane Irma.

This project scope includes inspection, design, and/or permitting for the repairs and/or replacement of each of the existing four waterfront projects identified herein. The scope for each site is independent of the others, in the event the City elects to proceed with only one or more sites, or if timing of them is staggered. Some fee savings *may be possible* if all four project sites are advanced in parallel.

1.0 SCOPE FOR SITE #1 – DAMES POINT PARK FISHING PIER

At the 2.63-acre Dames Point Park (Figure 1), the landward section of the 127 ft long fishing pier access has failed. The hollow-core precast between the first and second pile bents is destroyed, but from post-Irma damage reports prepared by others for the City it appears that the concrete piles and bents remain in serviceable condition. In addition, the guard rails and electrical conduit to the pier overhead lighting are in poor condition and require either rehabilitation or replacement. Based on discussions with the City staff,

the timber dolphins which are in poor condition will not be considered for repair/replacement at this time. No shoreline stabilization is required at this site.

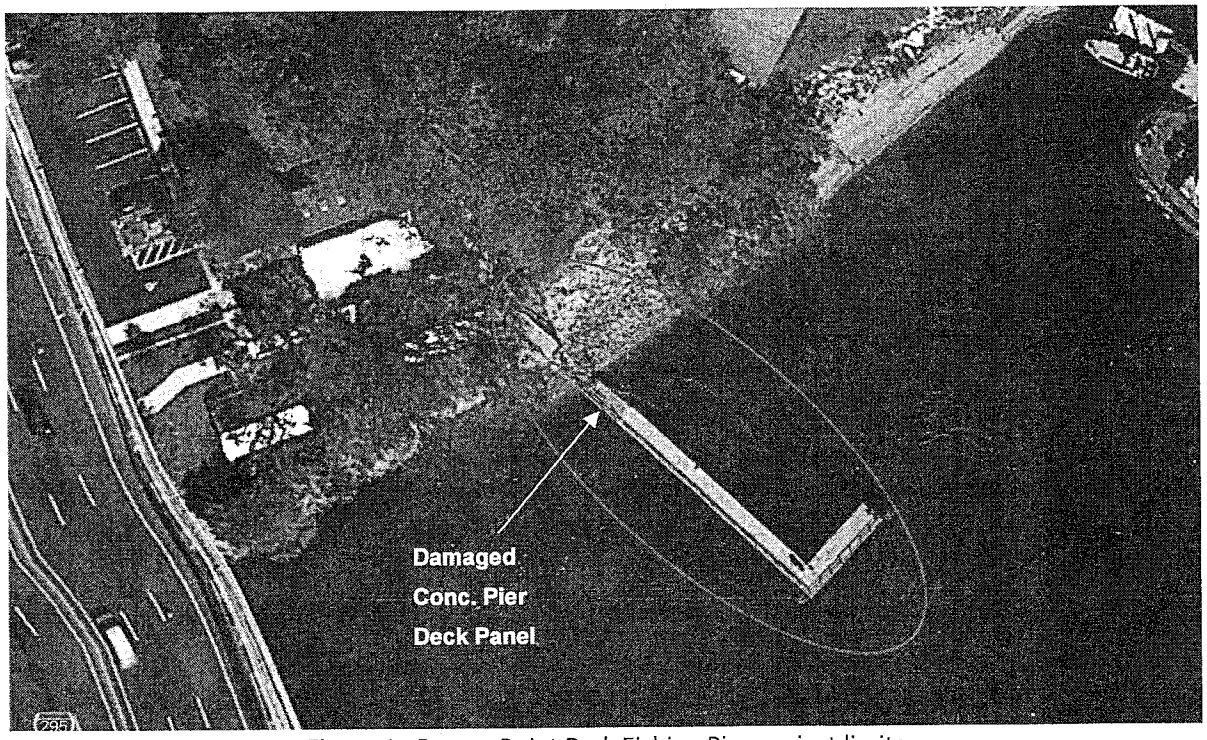

Figure 1. Dames Point Park Fishing Pier project limits

1.1 – Site Surveys & Inspection

- The ATM team will first conduct a review of available project information from the City, including any as-built, design, and permit plans related to the concrete fishing pier, as well as the Taylor Engineering inspection report dated June 2018 and the associated dive inspection report.
- ATM's team will conduct a topographic survey of the pier footprint, fixtures, and the connection to shore. Basic bathymetric data will be collected from the pier to obtain basic depths and locations of MHW and MLW lines for necessary permitting.
- Since this is a topside repair project only, no geotechnical data collection is included. Based on findings of the Taylor Engineering June 2018 report, it is assumed that the existing concrete piles are serviceable and will not require repair or replacement due to Irma. A dive evaluation of the piles will be completed to confirm this assumption.
- A topside structural evaluation of the damaged concrete pier, handrails, and lighting conduit will be completed.
- Project Meeting – a project meeting will be held with appropriate City staff and the ATM team. The intent of this meeting is to review results of the surveys and structural evaluation and confirm direction from City staff to define details of proposed project elements. After obtaining consensus related to the findings of the above tasks, ATM will commence Task 1.2, Concept Design.

1.2 – Concept Design & Report of Findings

- Review field surveys.
- Complete a desktop wind-wave review of the site to determine typical and extreme wind, water level, current, and wave conditions. This does not include field data collection or numerical modeling, and will rely on readily available public data sources and empirical calculations.
- Complete initial permit investigation (FDEP, USACE) to determine potential permitting requirements and limitations.
- Develop a Report of Findings, including cost estimates for repair of the concrete pier structure, handrails, and lighting conduit. It is assumed that the light fixtures are serviceable and do not need repair. The report will include concept level figures based on the analysis completed. This report will serve as the basis for City discussions with FEMA related to funding reimbursement. No utilities other than the lighting conduit, including fire suppression, water, etc. are included.
- One (1) meeting with the City is included, in addition to the site visit, to review the final Report of Findings.
- One (1) revision to the Report of Findings and associated cost estimates will be prepared, if necessary, following City feedback. The Task 1.2 report will serve as the basis for Task 1.3.

1.3 – Preliminary Design & Regulatory Permitting

- ATM will develop design of the repair of the fixed pier, handrails, and lighting conduit to an approximate 60% level to meet the approved concept plan developed in Task 1.2 and City-approved design criteria.
- ATM will assist City with preparing applications for FDEP and USACE permits for the work. It is anticipated that and ERP exemption and Nationwide Permit (NWP) 3 will be applicable since the proposed work is considered repair and maintenance. ATM will prepare permit drawings and application forms. An allowance of $100 for the FDEP exemption fee is included. Any additional permit fees are not included. An allowance of 8 hours is included for permit coordination/meetings following application submittal. FWC or USCG permits related to any signage or aids to navigation are not included. Attendance at public hearings, meetings, etc. is not included. It is assumed that the City will provide public notices, signatures, and necessary supporting information (deeds, etc.).
- Once permits are received, or at City direction, ATM will proceed into Task 1.4.

1.4 – Final Design & Construction Documents

- ATM will advance the preliminary design documents into final Construction Documents for the City's use with bidding and construction. The documents will include:
    - Site Survey/Existing Conditions
    - Proposed Site Plan with project layout and elements
    - Structural Cross Sections and applicable details of the marine structures

- Lighting conduit details and plan

A progress submittal will be made at 90%, including applicable drawings and technical specifications, and associated cost estimate update.

- COJ 10-Set Submittal will be prepared and submitted to the City of Jacksonville for review and approval.
- Following City review, ATM will provide 100% level construction documents, to include plans, details, and technical specifications.

2.0 SCOPE FOR SITE #2 – RINGHAVER PARK GANGWAY AND FLOATING DOCK

The floating dock and gangway at Ringhaver Park lie at the end of an approximately 700 ft timber boardwalk across wetland (Figure 2). Per discussions with the City, the boardwalk is in acceptable condition and is not part of this scope of work. The 4' x 60' gangway from the boardwalk to the floating dock and the 7' x 30' floating dock and its timber piles will likely require complete replacement based on review of available inspection information. ATM will consider replacement with a timber floating dock in this location.

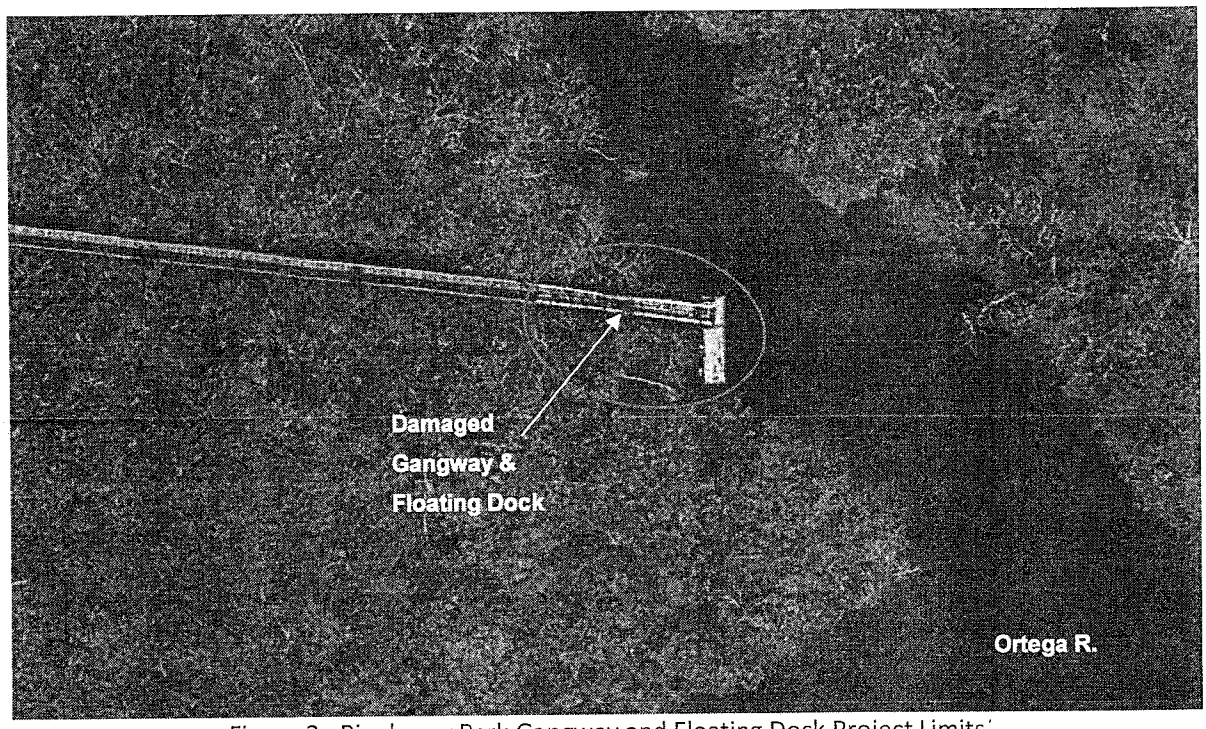

Figure 2. Ringhaver Park Gangway and Floating Dock Project Limits

2.1 – Site Surveys & Inspection

- Our team will first conduct a review of available project information from the City, including any as-built, design, and permit plans from the original installation of the floating dock, as well as the Taylor Engineering inspection report dated June 2018.
- ATM's team will conduct a topographic/bathymetric survey of the site.

- ATM's geotechnical sub-contractor will provide 1 x 40 ft boring near the floating dock. The geotechnical report shall include recommendations for pile installation, testing, and design parameters.
- A structural evaluation of the damaged gangway, floating dock, and piles will be completed. No dive survey is included, due to the shallow water depth, and ability to inspect from the topside.
- Project Meeting – a project meeting will be held with appropriate City staff and the ATM team. The intent of this meeting is to review results of the surveys and structural evaluation and confirm direction from City staff to define details of proposed project elements. After obtaining consensus related to the findings of the above tasks, ATM will commence Task 2.2, Concept Design.

2.2 – Concept Design & Report of Findings

- Review field survey and geotechnical interpretive reports.
- Complete a desktop wind-wave review of the site to determine typical and extreme wind, water level, current, and wave conditions. This does not include field data collection or numerical modeling, and will rely on readily available public data sources and empirical calculations.
- Complete initial permit investigation (FDEP, USACE) to determine potential permitting requirements and limitations.
- Develop a Report of Findings, including cost estimates for repair vs. replacement of the gangway, floating dock and piles, depending on ATM's opinion of the cause of the damage. The report will include concept level figures based on the analysis completed. This report will serve as the basis for City discussions with FEMA related to funding reimbursement. No utilities, including fire suppression, lighting, etc. are included.
- One (1) meeting with the City is included, in addition to the site visit, to review the final Report of Findings.
- One (1) revision to the Report of Findings and associated cost estimates will be prepared, if necessary, following City feedback.

2.3 – Preliminary Design & Regulatory Permitting

- ATM will develop design of the floating dock and gangway system to an approximate 60% level to meet the approved concept plan developed in Task 2.2 and City approved design criteria. All new floating docks, gangway, and pile system will be procured via design-build (performance specifications) which is industry standard. The selected Contractor will be responsible to submit sealed final floating dock design calculations and shop drawings, as well as their pile design prior to construction, in accordance with the project performance specifications.
- ATM will assist the City with preparing applications for FDEP and USACE permits for the work. It is anticipated that and ERP exemption and Nationwide Permit (NWP) 3 will be applicable since the proposed work is considered repair and maintenance. ATM will prepare permit drawings and application forms. An allowance of $100 for the FDEP exemption fee is included. Any additional permit fees are not included. An allowance of 12 hours is included for permit coordination/meetings. FWC or USCG permits related to any signage or aids to navigation are

not included. Attendance at public hearings, meetings, etc. is not included. It is assumed that the City will provide public notices, signatures, and necessary supporting information (deeds, etc.).

- Once permits are received, or at City direction, ATM will proceed into Task 2.4.

2.4 – Final Design & Construction Documents

- ATM will advance the preliminary design documents into final Construction Documents for the City's use with bidding and construction. The documents will include:
  - Site Survey/Existing Conditions
  - Proposed Site Plan with project layout and elements
  - Typical Cross Sections and applicable details of the floating dock and gangway

  A progress submittal will be made at 90%, including applicable drawings and technical specifications, and associated cost estimate update.
- COJ 10-Set Submittal will be prepared and submitted to the City of Jacksonville for review and approval.
- Following City review, ATM will provide 100% level construction documents, to include plans, details, and technical specifications.

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3.0 SCOPE FOR SITE #3 – METRO PARK FIXED PIER

The damaged wooden decking has been removed from the east portion of the Metro Park fixed timber docks, with timber piles and bents remaining. Prior to Irma, the fixed docks extended along approximately 850 ft of shoreline and were approximately 10-12 ft wide (refer to Figure 3). No post-Irma inspection was completed for this facility by the City, as the entire superstructure was destroyed during Hurricane Irma. There is also some uncertainty in the future use of this portion of the park. The City has identified the need to perform an inspection of the remaining fixed pier components to determine repair and/or replacement costs of the fixed docks, to the pre-Irma locations and elevations. An inherent challenge at this site is due to the fixed pier piles being located through the existing rock revetment, and the unknown location of the toe of the revetment.

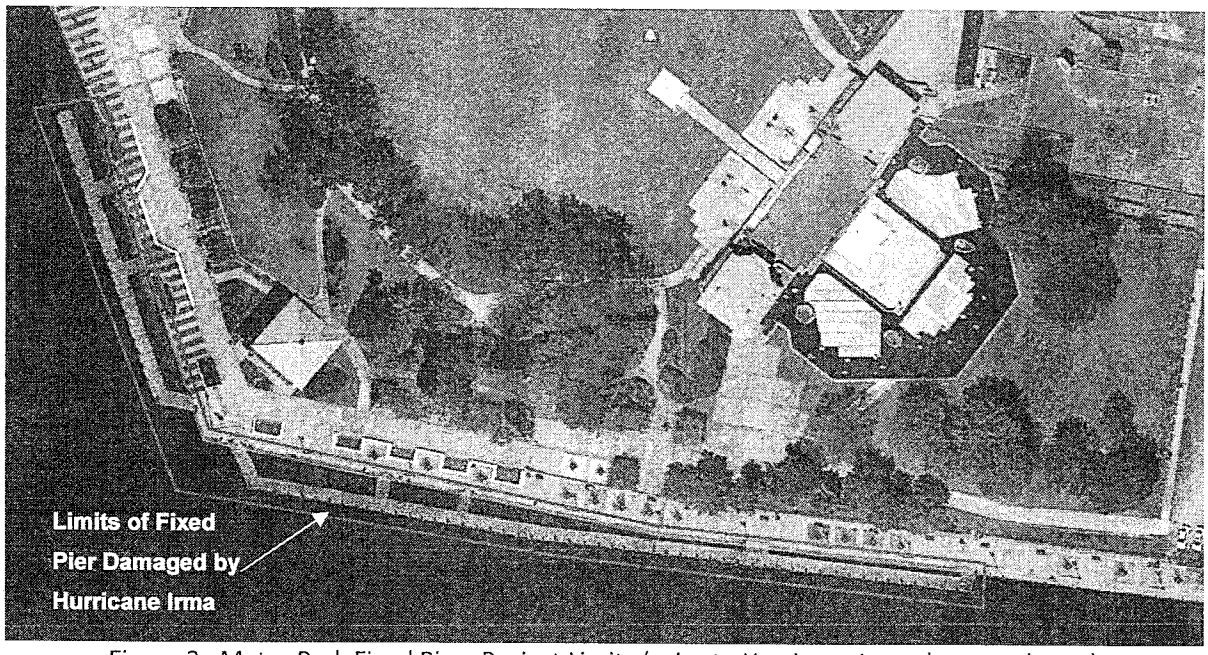

Figure 3. Metro Park Fixed Piers Project Limits (prior to Hurricane Irma damage shown)

3.1 – Site Surveys & Inspection

- Our team will first conduct a review of available project information from the City, including any as-built, design, and permit plans related to the Riverwalk bulkhead and timber docks. We also will require any post-Irma photos or records of debris removal at the site which the City may have.
- ATM's team will conduct a topographic/bathymetric survey of the site, as well as side scan and sub-bottom profiles and/or probes to identify the location and extent of the existing rip-rap revetment. This is so that the options to repair or replace the pier piles, if necessary, can avoid the existing rip-rap to the extent possible. However, complete certainty of the location and details of the revetment and pile interaction are to be determined. Should the City obtain accurate as-built surveys of the rip-rap toe, the side scan and sub-bottom surveys may be able to be omitted.
- Since this project site does not include design, no geotechnical data collection is included. Assumptions will be made for repair/replacement estimates at a concept level. If future design of new pile supported piers is required, a geotechnical investigation will be required.

- A structural evaluation of the remaining pier timber elements and fasteners will be completed with assistance from a dive team. The dive team will also inspect the piles within the intertidal zone and where they penetrate the riverbed or revetment.
- Project Meeting – a project meeting will be held with appropriate City staff and the ATM team. The intent of this meeting is to review results of the surveys and structural evaluation and confirm direction from City staff to define details of proposed project elements. After obtaining consensus related to the findings of the above tasks, ATM will commence Task 3.2, Concept Design.

3.2 – Concept Design & Report of Findings

- Review field survey and geotechnical interpretive report.
- Complete a desktop wind-wave review of the site to determine typical and extreme wind, water level, current, and wave conditions. This does not include field data collection or numerical modeling, and will rely on readily available public data sources and empirical calculations.
- Complete initial permit investigation (FDEP, USACE) to determine potential permitting requirements and limitations.
- Develop a Report of Findings, including cost estimates for repair vs. replacement of the timber pier structures. This will include ATM's opinion of what elements were damaged or destroyed due to Hurricane Irma, based on available information. Note that ATM did not conduct an immediate post-Irma inspection of the facility, thus our opinion will be limited to available current information and City documentation. The report will include concept level figures based on the analysis completed. This report will serve as the basis for City discussions with FEMA related to funding reimbursement. No utilities, including fire suppression, lighting, etc. are included.
- One (1) meeting with the City is included, in addition to the site visit, to review the final Report of Findings.
- One (1) revision to the Report of Findings and associated cost estimates will be prepared, if necessary, following City feedback.

4.0 SCOPE FOR SITE #4 – ST. JOHNS MARINA BOAT LANDING RIVERWALK PIER

This site includes approximately 280 ft of 20 ft wide heavy timber fixed pier extending west from the existing boat ramp (Figure 4). This section is one of the oldest portions of the City's Riverwalk and is heavily damaged with most of the components of the pier having likely exceeded their life expectancy. The existing piles include both steel and timber. It is anticipated that the entire structure will require complete replacement of the superstructure, overhead lighting cable/conduit (we assume that existing light fixtures are serviceable), and substructure with the exception of any remaining structurally sound piles. Initial cost estimates for repair of this facility, completed by others in June 2018 appear to be low given the observed condition of the facility. The inspection and design of repairs to adjacent bulkheads, revetments, and the floating dock at the boat ramp are outside the scope of services for this site.

EXHIBIT A

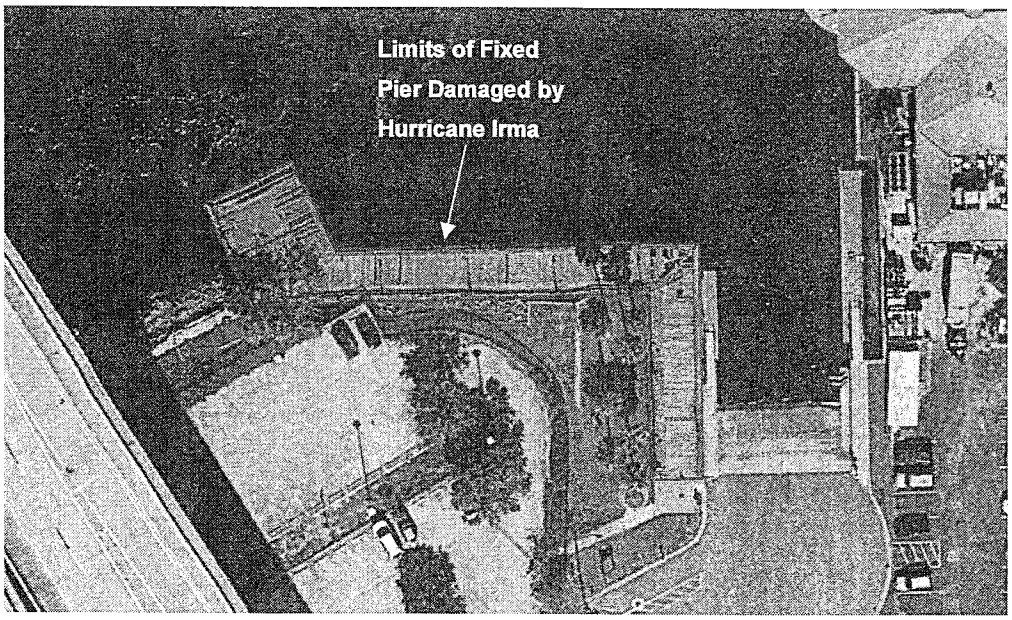

Figure 4. St. Johns Marina Boat Landing Riverwalk Pier Project Limits

4.1 - Site Surveys & Inspection

- Our team will first conduct a review of available project information from the City, including any as-built, design, and permit plans related to the timber riverwalk as well as the Taylor Engineering inspection report dated June 2018 and the associated dive inspection report.
- ATM's team will conduct a topographic/bathymetric survey of the site.
- ATM's sub-contractor will provide 2 x 50 ft borings along the existing pier alignment. The geotechnical report shall include recommendations for pile installation, testing, and design parameters.
- A structural evaluation of the pier timber elements and fasteners will be completed with assistance from a dive team. The dive team will also inspect and provide a report of the condition of every pile within the intertidal zone and where they penetrate the riverbed or revetment.
- Project Meeting – a project meeting will be held with appropriate City staff and the ATM team. The intent of this meeting is to review results of the surveys and structural evaluation and confirm direction from City staff to define details of proposed project elements. After obtaining consensus related to the findings of the above tasks, ATM will commence Task 4.2, Concept Design.

4.2 - Concept Design & Report of Findings

- Review field survey and geotechnical interpretive reports.
- Complete a desktop wind-wave review of the site to determine typical and extreme wind, water level, current, and wave conditions. This does not include field data collection or numerical modeling, and will rely on readily available public data sources and empirical calculations.

- Complete initial permit investigation (FDEP, USACE) to determine potential permitting requirements and limitations.
- Develop a report of findings, including cost estimates for repair vs. replacement of the pier, and support piles. The report will include concept level figures based on the analysis completed. This report will serve as the basis for City discussions with FEMA related to funding reimbursement. Only electric utilities to power the existing light fixtures are included. It is assumed that the light fixtures are serviceable and do not need repair. Other utilities, including fire suppression, water, etc. are not included.
- One (1) meeting with the City is included, in addition to the site visit, to review the final Report of Findings.
- One (1) revision to the Report of Findings and associated cost estimates will be prepared, if necessary, following City feedback.

4.3 - Preliminary Design & Regulatory Permitting

- ATM will develop design of the repair of the timber fixed pier and lighting conduit to an approximate 60% level to meet the approved concept plan developed in Task 4.2 and City-approved design criteria.
- ATM will assist City with preparing applications for FDEP and USACE permits for the work. It is anticipated that and ERP exemption and Nationwide Permit (NWP) 3 will be applicable since the proposed work is considered repair and maintenance. ATM will prepare permit drawings and application forms. An allowance of $100 for the FDEP exemption fee is included. Any additional permit fees are not included. An allowance of 12 hours is included for permit coordination/meetings. FWC or USCG permits related to any signage or aids to navigation are not included. Attendance at public hearings, meetings, etc. is not included. It is assumed that the City will provide public notices, signatures, and necessary supporting information (deeds, etc.).

4.4 - Final Design and Construction Documents

- ATM will advance the preliminary design documents into final Construction Documents for the City's use with bidding and construction. The documents will include:
  - Site Survey/Existing Conditions
  - Proposed Site Plan with project layout and elements
  - Structural Cross Sections and applicable details of the marine structures
  - Lighting conduit details and plan

  A progress submittal will be made at 90%, including applicable drawings and technical specifications, and associated cost estimate update.
- COJ 10-Set Submittal will be prepared and submitted to the City of Jacksonville for review and approval.
- Following City review, ATM will provide 100% level construction documents, to include plans, details, and technical specifications.

5.0 PROJECT MANAGEMENT AND COORDINATION

This task includes overall project management and coordination, design, and regulatory-oriented meetings necessary to successfully complete the project plans, documents and permitting. Coordination meetings with City staff and the ATM team are included in this task. Since the 4 project sites are treated as independent projects, each site fee has project management effort included within the subtasks.

6.0 FEE

See attached spreadsheet(s). A total fee sheet and breakdown for each of the 4 sites is provided.

7.0 EXCLUSIONS/CONDITIONS

The following are not included in ATM's scope, in addition to anything listed above:

- Bidding services, including development of front-end and related bid documents, responses to RFIs, and Bid Evaluation.
- Meetings, presentations, and/or presentation graphics other than those identified herein
- Construction Phase Services
- Environmental Assessments or detailed Environmental Studies, wetland delineations, etc.
- Upland site/civil, structural, MEP utilities (including fire suppression), landscape, and/or irrigation elements
- MEP permitting or design including fire suppression on the floating docks and piers, other than as indicated herein
- Field data collection and numerical modeling of waves, storm surge, or sediment transport
- Design or permitting of navigational aids or lights
- State Submerged Lands permitting or modifications to existing easements, consents, or leases
- FEMA coordination or documentation (including additional mitigation analysis or options) beyond providing the work efforts described herein

8.0 RESPONSIBILITIES OF THE CITY

- Provide access to the property for ATM and Sub-Consultants
- Provide project direction and coordination on behalf of the Department of Public Works and Department of Parks, Recreation and Community Services
- Perform project bidding and construction phase services
- Conduct FEMA coordination related to development and processing of PWs, reimbursement, etc.
- Provide payments for any additional permitting fees, above that stated in Tasks 1.3, 2.3, and 4.3.
- Provide documents for any/all existing studies, surveys, permits, as-builts, and design documents related to the existing site improvements.

EXHIBIT B

CONTRACT FEE SUMMARY

CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL	
1. Project: Dock Inspections & Design Services	2. Proposal No./Contract No. P-28-18 /
3. Name of Consultant Applied Technology & Management, Inc.	4. Date of Proposal 3/8/19 (Rev 4/25/2019)

PART II - LABOR RELATED COSTS				
5. Direct Labor (Limiting Amount)	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principal/Proj Manager	$68.18	204.00	$13,908.72	
Senior Engineer	$55.91	39.00	$2,180.49	
Staff Engineer	$44.63	0.00	$0.00	
Designer/Technician	$30.80	441.00	$13,582.80	
Drafter/CADD	$28.09	155.00	$4,353.95	
Technical Editor/Sr. Clerical	$33.82	0.00	$0.00	
Clerical	$21.27	81.00	$1,722.87	
TOTAL DIRECT LABOR		920.00		$35,748.83
6. Overhead (Combined Fringe Benefit & Administrative) Overhead Rate		175% x Total Direct Labor		$62,560.45
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$98,309.28
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$9,830.93
TOTAL LABOR RELATED COSTS (Items 7 &8)				$108,140.21

PART III - OTHER COSTS		
9. Miscellaneous Direct Costs (Reimbursable/Not To Exceed)		
Reproduction	$ 225.00	
Postage, Courier, Phone	$ 650.00	
Travel/Transportation	$ 570.72	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$1,445.72
10. SUBCONTRACTS (Reimbursable/Not to Exceed)		
Atlantic Engineering Services (Structural)	$ 104,700.00	
Meskel & Associates Engineering (Geotechnical)	$ 35,900.00	
Arc Surveying & Mapping (Surveys)	$ 36,898.27	
Logan Diving & Salvage (Dive Services/Inspection)	$ 16,520.00	
Simes & Rosch Engineering (Electrical)	$ 10,000.00	
SUBCONTRACT SUB-TOTAL (Reimbursable/Not to Exceed)		$204,018.27
11. REIMBURSABLE COSTS (Limiting Amount)		
FDEP Permit Fee (exemption verification)	$ 300.00	
Miscellaneous Items	$ 0.00	
SUB-TOTAL REIMBURSABLES		$300.00
TOTAL REIMBURSABLES (Items 10 & 11)		$204,318.27

PART IV - SUMMARY	
TOTAL AMOUNT OF CONTRACT (Labor Plus Other/Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	$313,904.20
12. TOTAL PRIOR CONTRACT AMOUNT	$0.00
TOTAL CONTRACT AMOUNT	**$313,904.20**

Form 1 - SCHEDULE OF PROPOSED PRICES/RATES

NAME OF CONSULTANT Applied Technology & Management, Inc.

Proposal Number P-28-18

1. Average hourly direct labor rates (without Fringe Benefits)

Principal/Project Manager (Responsible Professional)	$ 68.18 /hr.
Senior Engineer (Registered)	$ 55.91 /hr.
Staff Engineer (Registered)	$ 44.63 /hr.
Designer or Technician (Non-Registered)	$ 30.80 /hr.
Drafter or CADD Operator	$ 28.09 /hr.
Field Inspector	$ 30.80 /hr.
Technical Editor/Sr. Clerical	$ 33.82 /hr.
Clerical (Typist, Word Processor, Document Assembly, etc.)	$ 21.27 /hr.

2. Total Overhead Rate (to be applied to Direct Labor:) 175 %

3. Profit Rate (to be applied to Direct Labor plus Overhead) 10 %

4. Cost of 4-man survey crew per 8 hour day (If applicable) $ N/A hr.

5. Other Direct Project Costs per Unit (please specify)

Personal Auto Miles: $0.58/mile

Copies/plots (B&W/color): 8.5" x 11" ($0.10/$0.75); 11" x17" ($0.20/$1.50); 24" x 36" ($1.00/$3.00)

Postage: $20/month

6. Estimated percentage of total fee to be performed by subconsultants varies %

7. Please provide any other relevant rates that may apply to this project including average direct hourly labor rates for other categories of proposed personnel

inserted to 1. above

CONTRACT FEE SUMMARY

CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL	
1. Project: Dock Inspections & Design Services Site #1 - Dames Point Park Fishing Pier	2. Proposal No./Contract No. P-28-18 /
3. Name of Consultant Applied Technology & Management, Inc.	4. Date of Proposal 3/8/2019 (Rev 3/26/2019)

PART II - LABOR RELATED COSTS				
5. Direct Labor (Limiting Amount)	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principal/Proj Manager	$68.18	52.00	$3,545.36	
Senior Engineer	$55.91	11.00	$615.01	
Staff Engineer	$44.63	0.00	$0.00	
Designer/Technician	$30.80	110.00	$3,388.00	
Drafter/CADD	$28.09	40.00	$1,123.60	
Technical Editor/Sr. Clerical	$33.82	0.00	$0.00	
Clerical	$21.27	20.00	$425.40	
TOTAL DIRECT LABOR		233.00		$9,097.37
6. Overhead (Combined Fringe Benefit & Administrative) Overhead Rate 175% x Total Direct Labor				$15,920.40
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$25,017.77
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$2,501.78
TOTAL LUMP SUM LABOR FEES (Items 7 &8)				$27,519.54

PART III - OTHER COSTS		
9. Miscellaneous Direct Costs (Lump Sum)		
Reproduction	$ 50.00	
Postage, Courier, Phone	$ 180.00	
Travel/Transportation	$ 142.68	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$372.68
10. SUBCONTRACTS (Reimbursable/Not to Exceed)		
Atlantic Engineering Services (Structural)	$ 32,650.00	
Meskel & Associates Engineering (Geotechnical)	$ 0.00	
Arc Surveying & Mapping (Surveys)	$ 2,940.09	
Logan Diving & Salvage (Dive Services/Inspection)	$ 3,220.00	
Simes & Rosch Engineering (Electrical)	$ 5,000.00	
SUBCONTRACT SUB-TOTAL (Reimbursable/Not to Exceed)		$43,810.09
11. REIMBURSABLE COSTS (Limiting Amount)		
FDEP Permit Fee (exemption verification)	$ 100.00	
Miscellaneous Items	$ 0.00	
SUB-TOTAL REIMBURSABLES		$100.00
TOTAL REIMBURSABLES (Items 10 & 11)		$43,910.09

PART IV - SUMMARY	
TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	$71,802.31
12. TOTAL PRIOR CONTRACT AMOUNT	$0.00
TOTAL CONTRACT AMOUNT	**$71,802.31**

City of Jacksonville

Dock Inspections & Design Projects

ATM 3/8/19

Site #1 - Dames Point Fishing Pier

Hours By Staff Category

Task Description	Principal/Proj Mgr	Sr Engineer	Staff Engineer	Engineer Intern/Technician	CADD/Drafter	Technical Editor	Clerical	**Total**
1.1 Surveys and Inspection	8	-	-	24	2	-	4	38
1.2 Concept Design & Report of Findings	12	3	-	28	12	-	2	57
1.3 Prelim Design & Permitting	16	2	-	26	10	-	6	60
1.4 Final Design & CDs	16	6	-	32	16	-	8	78
Total Hours	**52**	**11**	**-**	**110**	**40**	**-**	**20**	**233**

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

PART I - GENERAL

1. Project	2. Proposal Number
City of Jacksonville - Dames Point Park Fishing Pier	P-28-18
3. Name of Consultant	**4. Date of Proposal**
Atlantic Engineering Services	3/7/2019

PART II - LABOR RELATED COSTS

5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principal	$ 75.00	10	$ 750.00	
Project Engineer	$ 55.00	114	$ 6,270.00	
Design Engineer	$ 48.00	52	$ 2,496.00	
BIM Technician	$ 36.00	58	$ 2,088.00	
Clerical	$ 22.00	6	$ 132.00	
TOTAL DIRECT LABOR		240		$ 11,736.00
6. Overhead (Combined Fringe Benefit & Administrative)				
Overhead Rate		150 % x Total Direct Labor		$ 17,604.00
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$ 29,340.00
8. PROFIT: Labor Related Costs (Item 7)		x	10%	$ 2,934.00
TOTAL LUMP SUM AMOUNT (Items 5, 6, & 8)				$ 32,274.00

PART III - OTHER COSTS

9. Miscellaneous Direct Costs (Lump Sum)			
Reproduction (Ex. Printing, Copying, Scanning)	$	50.00	
Transportation (Ex. Courier, Shipping)	$	50.00	
	$		
	$		
MISCELLANEOUS DIRECT COSTS SUB-TOTAL			$ 100.00
10. Subcontracts (Reimbursable/Not to Exceed)			
	$		
	$		
	$		
	$		
	$		
	$		
	$		
	$		
SUBCONTRACTS SUB-TOTAL			$ -
11. Reimbursable Costs (Limiting Amount)			
Miscellaneous Items (Ex. Special Tools, Safety Equipment)	$	276.00	
	$		
	$		
REIMBURSABLES COSTS SUB-TOTAL			$ 276.00
TOTAL REIMBURSABLES SUM AMOUNT (Items 10 & 11)			$ 276.00

PART IV - SUMMARY

TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10, and 11)	**$ 32,650.00**

ARC SURVEYING & MAPPING, INC.
5202 SAN JUAN AVENUE, JACKSONVILLE, FL 32210
PHONE (904) 384-8377 FAX (904) 384-8388
WWW. ARCSURVEYORS.COM

29 January 2019

Attn: Phillip Clancy
Applied Technology & Management
2200 N. Ponce de Leon Blvd., Suite 9
St. Augustine, FL 32084
Phone: 904- 310-1902
Email: pclancy@appliedtm.com

Re: Hydrographic & Topographic Surveying Services
Dames Point Dock Improvements
Duval County, Florida

Mr. Clancy:

As requested, Arc Surveying and Mapping, Inc. (Arc) is providing a proposal for performing hydrographic and topographic surveying and mapping services in support of the City of Jacksonville, Dames Point Dock Improvements.

1) **General Scope:** Arc will provide all equipment and labor resources necessary to perform the topographic and hydrographic survey for the above referenced project. The purpose of the survey is to acquire existing topographic and hydrographic survey data within the study area of Dames Point Dock Improvements and provide digital mapping products and associated data to facilitate in engineering design and planning options. All work will be managed by a Florida Professional Surveyor and Mapper.

   Task to include:

   i) Establish/Verify Horizontal and Vertical Site Control.

   ii) Pier topographic Survey to include pier structure, pier utilities (visible), and pier handrails.

   iii) Rip-Rap topographic survey to include 20 feet upland of rip-rap, shoreline limits and 30 feet either side of the existing pier.

   iv) Soundings taken from existing pier of river bottom.

   v) Show adjacent parcel boundaries (where applicable).

   vi) Locate MHW and MLW line.

   vii) Provide maps and digital files of survey results.

   b) **Horizontal Coordinate System and Vertical Datum:** Arc shall confirm and utilize as the horizontal datum the Florida State Plane Coordinate System, East Zone, North American Datum of 1983 (NAD83). Arc shall confirm and utilize as the vertical datum the National American Vertical Datum of 1988 (NAVD88) and reference soundings to the current tidal datum's for this region.

2) **Schedule of Deliverables:**

   a) One 3-D CAD file containing topographic and hydrographic survey results and mapping products.
   b) One set of ASCII computer files containing the base DTM data (breaklines, edge lines, spot elevation points, etc.).
   c) One set of signed and sealed record drawings depicting the results of the survey.

3) **Total Lump Sum Fee Schedule Topographic and Hydrographic Survey: $2,940**

TOTAL FEE SUMMARY Topographic and Hydrographic Survey					
TASK		Rate:	Units		Cost
Topographic Survey	$	173.41	10	$	1,730.41
Hydrographic Survey	$	312.68	0	$	
Processing / Mapping	$	87.10	10	$	870.10
Project Management	$	169.79	2	$	339.58
Total Fee Estimate:				$	2,940.09

Arc Surveying and Mapping appreciates the opportunity to work with you on this project and are available to answer any questions or concerns you may have.
Sincerely,

Richard Sawyer

Richard J. Sawyer, PSM, Certified Hydrographer

Phillip,

Our fee for the electrical design for the Dames Point Fishing Pier is **$5,000**. Details are as follows:

Electrical Design. Electrical design services shall include the design, plans and specifications for lighting, and general purpose power. Specifically, the CONSULTING ENGINEER shall perform engineering calculations to include: short circuit, electrical load, voltage drop, and lighting calculations. The ENGINEER shall provide related plans, riser diagrams, panel and lighting schedules and electrical details as necessary to fully describe the electrical distribution system. Additionally, the design for communication systems shall be limited to providing power, raceways, and boxes for such systems. It is assumed that the existing electrical service is adequate for the renovation and won't require replacement.

Exclusions. The following items are excluded from the Contract: Preparation of OMSI manuals; cost estimating; reproduction costs; BIM modeling or BIM design drawings; utility surveys; attendance at construction meetings; DQC responsibilities; hazardous material surveys or abatement; participation in commissioning or testing; metering of electrical equipment or feeders to establish demand; protective device coordination or arc flash studies; LCCA, Performance Rating Method or other energy analyses; LEED certification documentation and any other engineering support for LEED accreditation or any other sustainability program; mechanical, plumbing, civil, structural or seismic engineering; security or audio visual system design; permitting; fire protection, cathodic protection and emergency power systems.

Construction Administration (CA). The CONSULTING ENGINEER shall perform a submittal review for equipment submitted and advise the ENGINEER as to whether the submitted items meet the requirements of the design. The submittals (and any resubmittals) shall be sent to the CONSULTING ENGINEER in one package per discipline.

We will generate a formal contract if the project moves forward. Phillip, thanks again for including us on your team. We do appreciate this opportunity and look forward to working with you on the project. Let me know if you want to discuss this further.

Best, Cliff

SIMES & ROSCH
ENGINEERING

Clifton C. Simes, P.E.
Electrical Engineer - Principal

CONTRACT FEE SUMMARY

CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL	
1. Project: Dock Inspections & Design Services Site #2 -Ringhaver Park Floating Dock	2. Proposal No./Contract No. P-28-18 /
3. Name of Consultant Applied Technology & Management, Inc.	4. Date of Proposal 3/8/2019 (Rev 3/26/2019)

PART II - LABOR RELATED COSTS				
5. Direct Labor (Limiting Amount)	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principal/Proj Manager	$68.18	61.00	$4,158.98	
Senior Engineer	$55.91	15.00	$838.65	
Staff Engineer	$44.63	0.00	$0.00	
Designer/Technician	$30.80	135.00	$4,158.00	
Drafter/CADD	$28.09	50.00	$1,404.50	
Technical Editor/Sr. Clerical	$33.82	0.00	$0.00	
Clerical	$21.27	25.00	$531.75	
TOTAL DIRECT LABOR		286.00		$11,091.88
6. Overhead (Combined Fringe Benefit & Administrative) Overhead Rate	175% x Total Direct Labor			$19,410.79
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$30,502.67
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$3,050.27
TOTAL LUMP SUM LABOR FEES (Items 7 &8)				$33,552.94

PART III - OTHER COSTS		
9. Miscellaneous Direct Costs (Lump Sum)		
Reproduction	$ 50.00	
Postage, Courier, Phone	$ 180.00	
Travel/Transportation	$ 142.68	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$372.68
10. SUBCONTRACTS (Reimbursable/Not to Exceed)		
Atlantic Engineering Services (Structural)	$ 7,250.00	
Meskel & Associates Engineering (Geotechnical)	$ 15,000.00	
Arc Surveying & Mapping (Surveys)	$ 2,940.09	
Logan Diving & Salvage (Dive Services/Inspection)	$ 0.00	
Simes & Rosch Engineering (Electrical)	$ 0.00	
SUBCONTRACT SUB-TOTAL (Reimbursable/Not to Exceed)		$25,190.09
11. REIMBURSABLE COSTS (Limiting Amount)		
FDEP Permit Fee (exemption verification)	$ 100.00	
Miscellaneous Items	$ 0.00	
SUB-TOTAL REIMBURSABLES		$100.00
TOTAL REIMBURSABLES (Items 10 & 11)		$25,290.09

PART IV - SUMMARY	
TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	$59,215.71
12. TOTAL PRIOR CONTRACT AMOUNT	$0.00
TOTAL CONTRACT AMOUNT	**$59,215.71**

City of Jacksonville

Dock Inspections & Design Projects

ATM 3/8/19

Site #2 - Ringhaver Floating Dock

Hours By Staff Category

Task Description	Principal/Proj Mgr	Sr Engineer	Staff Engineer	Engineer Intern/Technician	CADD/Drafter	Technical Editor	Clerical	**Total**
2.1 Surveys and Inspection	10	-	-	22	-	-	5	37
2.2 Concept Design & Report of Findings	9	7	-	37	7	-	2	62
2.3 Prelim Design & Permitting	16	2	-	32	23	-	7	80
2.4 Final Design & CDs	26	6	-	44	20	-	11	107
Total Hours	**61**	**15**	**-**	**135**	**50**	**-**	**25**	**286**

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

PART I - GENERAL

1. Project	2. Proposal Number
City of Jacksonville - Ringhaver Park Gangway and Dock	P-28-18
3. Name of Consultant	**4. Date of Proposal**
Atlantic Engineering Services	3/7/2019

PART II - LABOR RELATED COSTS

5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principal	$ 75.00	4	$ 300.00	
Project Engineer	$ 55.00	24	$ 1,320.00	
Design Engineer	$ 48.00	10	$ 480.00	
BIM Technician	$ 36.00	12	$ 432.00	
Clerical	$ 22.00	2	$ 44.00	
TOTAL DIRECT LABOR		52		$ 2,576.00
6. Overhead (Combined Fringe Benefit & Administrative)				
Overhead Rate	150 % x Total Direct Labor			$ 3,864.00
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$ 6,440.00
8. PROFIT: Labor Related Costs (Item 7)		x	10%	$ 644.00
TOTAL LUMP SUM AMOUNT (Items 5, 6, & 8)				$ 7,084.00

PART III - OTHER COSTS

9. Miscellaneous Direct Costs (Lump Sum)		
Reproduction (Ex. Printing, Copying, Scanning)	$ 50.00	
Transportation (Ex. Courier, Shipping)	$ 50.00	
	$	
	$	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$ 100.00
10. Subcontracts (Reimbursable/Not to Exceed)		
	$	
	$	
	$	
	$	
	$	
	$	
	$	
	$	
SUBCONTRACTS SUB-TOTAL		$ -
11. Reimbursable Costs (Limiting Amount)		
Miscellaneous Items (Ex. Special Tools, Safety Equipment)	$ 66.00	
	$	
	$	
REIMBURSABLES COSTS SUB-TOTAL		$ 66.00
TOTAL REIMBURSABLES SUM AMOUNT (Items 10 & 11)		$ 66.00

PART IV - SUMMARY

TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10, and 11)	**$ 7,250.00**

Meskel & Associates Engineering
Geotechnical ▸ Environmental ▸ Inspection ▸ Testing

February 12, 2019

Mr. Timothy P. Mason, P.E.
Applied Technology & Management
2200 N. Ponce de Leon Blvd, Suite 9
St Augustine, FL 32084

Subject: Proposal for Geotechnical Exploration and Engineering Services
Ringhaver Park Dock Improvements
Jacksonville, Florida
MAE Proposal No. 003219

Dear Mr. Mason:

MESKEL & ASSOCIATES ENGINEERING, PLLC (MAE) is pleased to present this proposal to provide the geotechnical exploration and engineering services for the subject project. This proposal was requested by you via electronic correspondence on January 17, 2019. This correspondence included a summary of the project details. This proposal includes a scope of services for replacement of the damaged gangway and floating dock.

It is our understanding that ATM has been requested by the City of Jacksonville to provide an estimate for the repair/replacement of the existing gangway and floating dock. The existing gangway and dock are located on the about 1,800 LF southeast of the existing Ringhaver Park. The existing dock is approximately 30 feet long. We understand that the water depth in this area is approximately 5 feet.

The objective of the geotechnical exploration is to provide sufficient site and subsurface information to evaluate the subsurface conditions for the proposed construction. Based on the provided information, the following tables summarize our proposed scope of services.

BASE SCOPE OF SERVICES		
Test Location	**Test No. & Type**	**Test Depth ft below existing mudline**
Water Borings (Dock)	1 Standard Penetration Test (SPT) Borings [1]	40 [2]

1. Boring locations will avoid impacting the navigable channel.
2. The test depth from the barge deck is feet (5 feet from barge deck to water line, 5 feet from water line to mudline). Boring termination elevation will be approximately 40 feet below the mudline.

The boring locations appear to be accessible with our barge/amphibious-mounted drilling equipment. We will locate the borings using our hand-held GPS equipment, accurate to within 3 meters (+/- 10 feet).

In accordance with Florida law, we will attempt to locate existing underground utilities at the site by utilizing the Sunshine State One-Call (SSOC) system. Any private utilities not included in the SSOC system will need to be located by the Owner. It should be noted that utility locate services require 10 business days for all utility locate requests within a navigable waterway. All SPT borings will be performed in general accordance with ASTM D1586 procedures.

Once the SPT boring is completed, they will be backfilled with grout per St. Johns River Water Management District guidelines. We will take all reasonable precautions to prevent damage to the existing structures. The recovered soil samples will be described in the field by the field crew. The field logs and samples will be delivered to our laboratory, where the logs will be reviewed, and the samples will be classified, by a geotechnical engineer in general accordance with ASTM D2488.

If unusual or unanticipated soil conditions are encountered during drilling prior to or at the anticipated termination depths, we will contact immediately to discuss the matter. We will not explore to depths beyond our scope of services without your consent.

Laboratory classification and soil index property tests will be performed in general accordance with ASTM procedures for each applicable test as necessary on selected soil samples to confirm the soil classification and provide engineering characteristics to estimate compressibility.

A geotechnical engineer, licensed in the State of Florida, will direct the geotechnical exploration and provide an engineering evaluation of the subsurface conditions encountered at the boring locations. The results of the exploration and engineering evaluation will be documented in a report that will include the following:

- Our understanding of the planned construction and general description of the project;
- A boring location plan detailing the location of each boring and type of equipment used;
- Field exploration procedures and soil sampling (and rock coring, if requested) methods used;
- Graphical representation in profile view of our boring logs and stratification which will detail the number of borings performed, description and thickness of each soil layer, any fluid loss(es) during drilling, and SPT-N values at each sample interval;
- The laboratory test procedures performed, and the results obtained,
- Recommendations for axial capacity (both compression and uplift) and lateral capacity based on for each pile alternative; and
- Recommendations for pile installation and testing during construction.

Based on the scope of the services outlined above, we propose to complete our work for the estimated fee shown in the table below.

SCOPE OF SERVICES	
DESCRIPTION	ESTIMATED FEE
Field Exploration and Mobilization, Laboratory Testing, Engineering Analysis and Report (LUMP SUM)	**$ 15,000.00**

This fee includes submittal of a digitally signed and sealed report. Paper copies of our report are available at an additional fee of $50 per copy. We will contact you immediately if we encounter subsurface conditions that could require the borings to be advanced to deeper depths, and/or if additional engineering analysis/evaluation outside the scope of this proposal is necessary.

Once authorization is received, a utility locate request will be submitted. We will mobilize our equipment to the site within one week once the utilities have been located and marked, which is 10 working days after the request is made. We anticipate the field work will take 2 days to complete. Verbal results can be provided within 2 to 3 days after completion of the field work. Laboratory testing will take up to one

week to complete depending on the amount of lab testing assigned. We plan to submit our engineering report within 3 weeks following completion of the field exploration and laboratory testing programs.

We appreciate this opportunity to provide this proposal for your project. If you have any questions concerning this proposal, or if we can serve you in any other way, please contact us.

Sincerely,
MESKEL & ASSOCIATES ENGINEERING, PLLC

Brett H. Harbison

Brett Harbison, P.E.
Director, Geotechnical Services

Distribution: Mr. Timothy Mason, P.E. – ATM One e-mail copy

ARC SURVEYING & MAPPING, INC.
5202 SAN JUAN AVENUE, JACKSONVILLE, FL 32210
PHONE (904) 384-8377 FAX (904) 384-8388
WWW. ARCSURVEYORS.COM

29 January 2019

Attn: Phillip Clancy
Applied Technology & Management
2200 N. Ponce de Leon Blvd., Suite 9
St. Augustine, FL 32084
Phone: 904- 310-1902
Email: pclancy@appliedtm.com

Re: Hydrographic & Topographic Surveying Services
Ringhaver Park Dock Improvements
Duval County, Florida

Mr. Clancy:

As requested, Arc Surveying and Mapping, Inc. (Arc) is providing a proposal for performing hydrographic and topographic surveying and mapping services in support of the City of Jacksonville, Ringhaver Park Dock Improvements.

1) **General Scope:** Arc will provide all equipment and labor resources necessary to perform the topographic and hydrographic survey for the above referenced project. The purpose of the survey is to acquire existing topographic and hydrographic survey data within the study area of Dames Point Dock Improvements and provide digital mapping products and associated data to facilitate in engineering design and planning options. All work will be managed by a Florida Professional Surveyor and Mapper.

   Task to include:

   i) Establish/Verify Horizontal and Vertical Site Control.

   ii) Topographic Survey to include 20 feet of timber board walk, gangway, floating docks and piles, shoreline and upland underneath gangway and 5 to 10 feet on either side.

   iii) Soundings taken from floating dock of creek bottom.

   iv) Provide maps and digital files of survey results.

   b) **Horizontal Coordinate System and Vertical Datum:** Arc shall confirm and utilize as the horizontal datum the Florida State Plane Coordinate System, East Zone, North American Datum of 1983 (NAD83). Arc shall confirm and utilize as the vertical datum the National American Vertical Datum of 1988 (NAVD88) and reference soundings to the current tidal datum's for this region.

2) **Schedule of Deliverables:**

   a) One 3-D CAD file containing topographic and hydrographic survey results and mapping products.
   b) One set of ASCII computer files containing the base DTM data (breaklines, edge lines, spot elevation points, etc.).
   c) One set of signed and sealed record drawings depicting the results of the survey.

3) **Total Lump Sum Fee Schedule Topographic and Hydrographic Survey:** **$2,940**

TOTAL FEE SUMMARY Topographic and Hydrographic Survey					
TASK		Rate:	Units		Cost
Topographic Survey	$	173.41	10	$	1,730.41
Hydrographic Survey	$	312.68	0	$	
Processing / Mapping	$	87.10	10	$	870.10
Project Management	$	169.79	2	$	339.58
Total Fee Estimate:				$	2,940.09

Arc Surveying and Mapping appreciates the opportunity to work with you on this project and are available to answer any questions or concerns you may have.

Sincerely,

Richard Sawyer

Richard J. Sawyer, PSM, Certified Hydrographer

CONTRACT FEE SUMMARY

CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL	
1. Project: Dock Inspections & Design Services Site #3 - Metro Park Fixed Pier	2. Proposal No./Contract No. P-28-18 /
3. Name of Consultant Applied Technology & Management, Inc.	4. Date of Proposal 3/8/2019 (Rev 3/26/2019)

PART II - LABOR RELATED COSTS				
5. Direct Labor (Limiting Amount)	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principal/Proj Manager	$68.18	32.00	$2,181.76	
Senior Engineer	$55.91	3.00	$167.73	
Staff Engineer	$44.63	0.00	$0.00	
Designer/Technician	$30.80	72.00	$2,217.60	
Drafter/CADD	$28.09	13.00	$365.17	
Technical Editor/Sr. Clerical	$33.82	0.00	$0.00	
Clerical	$21.27	12.00	$255.24	
TOTAL DIRECT LABOR		132.00		$5,187.50
6. Overhead (Combined Fringe Benefit & Administrative) Overhead Rate 175% x Total Direct Labor				$9,078.13
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$14,265.63
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$1,426.56
TOTAL LUMP SUM LABOR FEES (Items 7 &8)				$15,692.19

PART III - OTHER COSTS		
9. Miscellaneous Direct Costs (Lump Sum)		
Reproduction	$ 25.00	
Postage, Courier, Phone	$ 110.00	
Travel/Transportation	$ 142.68	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$277.68
10. SUBCONTRACTS (Reimbursable/Not to Exceed)		
Atlantic Engineering Services (Structural)	$ 18,900.00	
Meskel & Associates Engineering (Geotechnical)	$ 0.00	
Arc Surveying & Mapping (Surveys)	$ 24,060.00	
Logan Diving & Salvage (Dive Services/Inspection)	$ 9,240.00	
Simes & Rosch Engineering (Electrical)	$ 0.00	
SUBCONTRACT SUB-TOTAL (Reimbursable/Not to Exceed)		$52,200.00
11. REIMBURSABLE COSTS (Limiting Amount)		
	$ 0.00	
Miscellaneous Items	$ 0.00	
SUB-TOTAL REIMBURSABLES		$0.00
TOTAL REIMBURSABLES (Items 10 & 11)		$52,200.00

PART IV - SUMMARY	
TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	$68,169.87
12. TOTAL PRIOR CONTRACT AMOUNT	$0.00
TOTAL CONTRACT AMOUNT	**$68,169.87**

City of Jacksonville

Dock Inspections & Design Projects

ATM 3/8/19

Site #3 - Metro Park Fixed Pier

Hours By Staff Category

Task Description	Principal/Proj Mgr	Sr Engineer	Staff Engineer	Engineer Intern/Technician	CADD/Drafter	Technical Editor	Clerical	**Total**
3.1 Surveys and Inspection	9	-	-	26	-	-	5	40
3.2 Concept Design & Report of Findings	23	3	-	46	13	-	7	92
Total Hours	**32**	**3**	**-**	**72**	**13**	**-**	**12**	**132**

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

PART I - GENERAL

1. Project **City of Jacksonville - Metro Park Fixed Pier**	**2. Proposal Number** P-28-18
3. Name of Consultant **Atlantic Engineering Services**	**4. Date of Proposal** **3/7/2019**

PART II - LABOR RELATED COSTS

5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principal	$ 75.00	6	$ 450.00	
Project Engineer	$ 55.00	64	$ 3,520.00	
Design Engineer	$ 48.00	40	$ 1,920.00	
BIM Technician	$ 36.00	22	$ 792.00	
Clerical	$ 22.00	4	$ 88.00	
TOTAL DIRECT LABOR		136		$ 6,770.00
6. Overhead (Combined Fringe Benefit & Administrative) Overhead Rate	150 % x Total Direct Labor			$ 10,155.00
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$ 16,925.00
8. PROFIT: Labor Related Costs (Item 7)		x	10%	$ 1,693.00
TOTAL LUMP SUM AMOUNT (Items 5, 6, & 8)				$ 18,618.00

PART III - OTHER COSTS

9. Miscellaneous Direct Costs (Lump Sum)		
Reproduction (Ex. Printing, Copying, Scanning)	$ 50.00	
Transportation (Ex. Courier, Shipping)	$ 50.00	
	$	
	$	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$ 100.00
10. Subcontracts (Reimbursable/Not to Exceed)		
	$	
	$	
	$	
	$	
	$	
	$	
	$	
	$	
SUBCONTRACTS SUB-TOTAL		$ -
11. Reimbursable Costs (Limiting Amount)		
Miscellaneous Items (Ex. Special Tools, Safety Equipment)	$ 182.00	
	$	
	$	
REIMBURSABLES COSTS SUB-TOTAL		$ 182.00
TOTAL REIMBURSABLES SUM AMOUNT (Items 10 & 11)		$ 182.00

PART IV - SUMMARY

TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10, and 11)	$ **18,900.00**

ARC SURVEYING & MAPPING, INC.
5202 SAN JUAN AVENUE, JACKSONVILLE, FL 32210
PHONE (904) 384-8377 FAX (904) 384-8388
WWW. ARCSURVEYORS.COM

29 January 2019

Attn: Phillip Clancy
Applied Technology & Management
2200 N. Ponce de Leon Blvd., Suite 9
St. Augustine, FL 32084
Phone: 904- 310-1902
Email: pclancy@appliedtm.com

Re: Hydrographic & Topographic Surveying Services
City of Jacksonville: Metropolitan Park Dock Improvements
Duval County, Florida

Mr. Clancy:

As requested, Arc Surveying and Mapping, Inc. (Arc) is providing a proposal for performing hydrographic and topographic surveying and mapping services in support of the City of Jacksonville, Metropolitan Park Docking Improvements.

1) **General Scope:** Arc will provide all equipment and labor resources necessary to perform the topographic and hydrographic survey for the above referenced project. The purpose of the survey is to acquire existing topographic and hydrographic survey data within the study area of Metropolitan Park Dock Improvements and provide digital mapping products and associated data to facilitate in engineering design and planning options. Specific requirement requested is to map the toe of existing underwater rip-rap armor lying adjacent to the seawall. This requirement will be performed in a sequential order of task beginning with first probing from existing structure (i.e. seawall and dock), second performing a side scan sonar survey and third by performing a sub-bottom profile survey. In the event a task associated with locating the toe of rip-rap is successful the remaining rip-rap location task will not be performed. All work will be managed by a Florida Professional Surveyor and Mapper.

   Task to include:

   i) Establish/Verify Horizontal and Vertical Site Control.

   ii) Topographic Survey of bulkhead, revetment and 20 feet upland. To include existing topography, bulkheads, structures, signage, existing docks, exposed timber piles, vegetation, revetments, and above ground visible utilities.

   iii) Rip-Rap probes of existing revetment in order to locate the existing toe of rip-rap.

   iv) Hydrographic Multibeam Survey within the project limits to include the entire length of pier and 50 feet waterward.

   v) Locate MHW and MLW line.

   vi) Show adjacent parcel boundaries.

   vii) (option) Side Scan Sonar Survey along and parallel to the existing bulkhead to identify extents of visible rip rap.

   viii) (option) Sub Bottom Profile Survey along and parallel to the existing dock features to identify toe of rip – rap.

      (1) Description and variables that effect results: Sub-bottom Profilers use low frequency sound to penetrate the sediments under bodies of water. Changes in sediment type (i.e. mud, sand, clay) have different density. The changes in density cause some of the penetrating sound to be reflected to the receiver in the sub-bottom sensor. These "reflectors" are measured and can be mapped to show their depth and characteristics. Penetration can be affected by adverse conditions such as gas trapped in the sediment or material that is too dense (i.e. rock). All the energy is reflected back and little or none continues into the ground. Sediment can become gas charged if it contains organic material that decays and produces microscopic gas bubbles. The gas is a drastic change in density and reflects all of the sound back preventing penetration. In the case of gaseous organics, the gas bubbles resonate and result in a very strong reflection thus resulting in no sub-bottom solution.

   ~~ix) Sovereign Submerged Lands Lease Survey of the proposed new dock area.~~

   x) Provide maps and digital files of survey results.

   b) **Horizontal Coordinate System and Vertical Datum:** Arc shall confirm and utilize as the horizontal datum the Florida State Plane Coordinate System, East Zone, North American Datum of 1983 (NAD83). Arc shall confirm and utilize as the vertical datum the National American Vertical Datum of 1988 (NAVD88) and reference soundings to the current tidal datum's for this region.

2) **Schedule of Deliverables:**

   a) One 3-D CAD file containing topographic and hydrographic survey results and mapping products.
   b) One set of ASCII computer files containing the base DTM data (breaklines, edge lines, spot elevation points, etc.).
   c) One set of signed and sealed record drawings depicting the results of the survey.

3) **Total Lump Sum Fee Schedule Topographic and Hydrographic Survey: $11,268**
4) ~~**Total lump Sum Feed Schedule Sovereign Submerged Lands Lease Survey: $6,194**~~
5) **Total lump Sum Feed Schedule Side Scan Sonar Survey: $6,396**
6) **Total lump Sum Feed Schedule Sub-bottom Profile Survey: $6,396**

TOTAL FEE SUMMARY Topographic and Hydrographic Survey					
TASK		Rate:	Units		Cost
Topographic Survey	$	173.41	30	$	5,202.30
Hydrographic Survey	$	312.68	10	$	3,126.80
Processing / Mapping	$	87.10	24	$	2,090.40
Project Management	$	169.79	5	$	848.94
Total Fee Estimate:				$	11,268.44

~~**TOTAL FEE SUMMARY Sovereign Submerged Lands Lease Survey**~~					
~~TASK~~		~~Rate:~~	~~Units~~		~~Cost~~
~~Field Survey~~	~~$~~	~~173.41~~	~~8~~	~~$~~	~~1,387.28~~
~~PLS~~	~~$~~	~~169.79~~	~~16~~	~~$~~	~~2,716.64~~
~~Mapping~~	~~$~~	~~87.10~~	~~24~~	~~$~~	~~2,090.40~~
~~**Total Fee Estimate:**~~				~~$~~	~~6,194.32~~

TOTAL FEE SUMMARY Side Scan Sonar Survey					
TASK		Rate:	Units		Cost
Hydrographic Survey	$	312.68	16	$	5,002.88
Processing / Mapping	$	87.10	16	$	1,393.60
Total Fee Estimate:				$	6,396.48

TOTAL FEE SUMMARY Sub-bottom Profile Survey					
TASK		Rate:	Units		Cost
Hydrographic Survey	$	312.68	16	$	5,002.88
Processing / Mapping	$	87.10	16	$	1,393.60
Total Fee Estimate:				$	6,396.48

Arc Surveying and Mapping appreciates the opportunity to work with you on this project and are available to answer any questions or concerns you may have.

Sincerely,

Richard Sawyer

Richard J. Sawyer, PSM, Certified Hydrographer
Vice President

CONTRACT FEE SUMMARY

CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL	
1. Project: Dock Inspections & Design Services Site #4 - St Johns Marina Boat Landing Riverwalk Pier	2. Proposal No./Contract No. P-28-18 /
3. Name of Consultant Applied Technology & Management, Inc.	4. Date of Proposal 3/8/2019 (Rev 3/26/2019)

PART II - LABOR RELATED COSTS				
5. Direct Labor (Limiting Amount)	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principal/Proj Manager	$68.18	59.00	$4,022.62	
Senior Engineer	$55.91	10.00	$559.10	
Staff Engineer	$44.63	0.00	$0.00	
Designer/Technician	$30.80	124.00	$3,819.20	
Drafter/CADD	$28.09	52.00	$1,460.68	
Technical Editor/Sr. Clerical	$33.82	0.00	$0.00	
Clerical	$21.27	24.00	$510.48	
TOTAL DIRECT LABOR		269.00		$10,372.08
6. Overhead (Combined Fringe Benefit & Administrative) Overhead Rate		175% x Total Direct Labor		$18,151.14
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$28,523.22
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$2,852.32
TOTAL LUMP SUM LABOR FEES (Items 7 &8)				$31,375.54

PART III - OTHER COSTS		
9. Miscellaneous Direct Costs (Lump Sum)		
Reproduction	$ 100.00	
Postage, Courier, Phone	$ 180.00	
Travel/Transportation	$ 142.68	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$422.68
10. SUBCONTRACTS (Reimbursable/Not to Exceed)		
Atlantic Engineering Services (Structural)	$ 45,900.00	
Meskel & Associates Engineering (Geotechnical)	$ 20,900.00	
Arc Surveying & Mapping (Surveys)	$ 6,958.09	
Logan Diving & Salvage (Dive Services/Inspection)	$ 4,060.00	
Simes & Rosch Engineering (Electrical)	$ 5,000.00	
SUBCONTRACT SUB-TOTAL (Reimbursable/Not to Exceed)		$82,818.09
11. REIMBURSABLE COSTS (Limiting Amount)		
FDEP Permit Fee (exemption verification)	$ 100.00	
Miscellaneous Items	$ 0.00	
SUB-TOTAL REIMBURSABLES		$100.00
TOTAL REIMBURSABLES (Items 10 & 11)		$82,918.09

PART IV - SUMMARY	
TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	$114,716.31
12. TOTAL PRIOR CONTRACT AMOUNT	$0.00
TOTAL CONTRACT AMOUNT	**$114,716.31**

City of Jacksonville

Dock Inspections & Design Projects

ATM 3/8/19

Site #4 - St Johns Boat Landing Riverwalk Pier

Hours By Staff Category

Task Description	Principal/Proj Mgr	Sr Engineer	Staff Engineer	Engineer Intern/Technician	CADD/Drafter	Technical Editor	Clerical	**Total**
4.1 Surveys and Inspection	9	-	-	26	2	-	4	41
4.2 Concept Design & Report of Findings	16	2	-	42	12	-	2	74
4.3 Prelim Design & Permitting	16	2	-	30	18	-	7	73
4.4 Final Design & CDs	18	6	-	26	20	-	11	81
Total Hours	**59**	**10**	**-**	**124**	**52**	**-**	**24**	**269**

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

PART I - GENERAL

1. Project **City of Jacksonville - St. Johns Marina Boat Landing** **Riverwalk Pier**	**2. Proposal Number** P-28-18
3. Name of Consultant **Atlantic Engineering Services**	**4. Date of Proposal** **3/7/2019**

PART II - LABOR RELATED COSTS

5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principal	$ 75.00	14	$ 1,050.00	
Project Engineer	$ 55.00	134	$ 7,370.00	
Design Engineer	$ 48.00	94	$ 4,512.00	
BIM Technician	$ 36.00	96	$ 3,456.00	
Clerical	$ 22.00	8	$ 176.00	
TOTAL DIRECT LABOR		346		$ 16,564.00
6. Overhead (Combined Fringe Benefit & Administrative)				
Overhead Rate	150 % x Total Direct Labor			$ 24,846.00
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$ 41,410.00
8. PROFIT: Labor Related Costs (Item 7)		x	10%	$ 4,141.00
TOTAL LUMP SUM AMOUNT (Items 5, 6, & 8)				$ 45,551.00

PART III - OTHER COSTS

9. Miscellaneous Direct Costs (Lump Sum)		
Reproduction (Ex. Printing, Copying, Scanning)	$ 50.00	
Transportation (Ex. Courier, Shipping)	$ 50.00	
	$	
	$	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$ 100.00
10. Subcontracts (Reimbursable/Not to Exceed)		
	$	
	$	
	$	
	$	
	$	
	$	
	$	
	$	
SUBCONTRACTS SUB-TOTAL		$ -
11. Reimbursable Costs (Limiting Amount)		
Miscellaneous Items (Ex. Special Tools, Safety Equipment)	$ 249.00	
	$	
	$	
REIMBURSABLES COSTS SUB-TOTAL		$ 249.00
TOTAL REIMBURSABLES SUM AMOUNT (Items 10 & 11)		$ 249.00

PART IV - SUMMARY

TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10, and 11)	**$ 45,900.00**

ARC SURVEYING & MAPPING, INC.
5202 SAN JUAN AVENUE, JACKSONVILLE, FL 32210
PHONE (904) 384-8377 FAX (904) 384-8388
WWW. ARCSURVEYORS.COM

29 January 2019

Attn: Phillip Clancy
Applied Technology & Management
2200 N. Ponce de Leon Blvd., Suite 9
St. Augustine, FL 32084
Phone: 904- 310-1902
Email: pclancy@appliedtm.com

Re: Hydrographic & Topographic Surveying Services
St. Johns Boat Landing Improvements
Duval County, Florida

Mr. Clancy:

As requested, Arc Surveying and Mapping, Inc. (Arc) is providing a proposal for performing hydrographic and topographic surveying and mapping services in support of the City of Jacksonville, St. Johns Boat Landing Improvements.

1) **General Scope:** Arc will provide all equipment and labor resources necessary to perform the topographic and hydrographic survey for the above referenced project. The purpose of the survey is to acquire existing topographic and hydrographic survey data within the study area of St. Johns Boat Landing Improvements and provide digital mapping products and associated data to facilitate in engineering design and planning options. All work will be managed by a Florida Professional Surveyor and Mapper.

   Task to include:

   i) Establish/Verify Horizontal and Vertical Site Control.

   ii) Locate MHW and MLW

   iii) Topographic Survey (30 feet upland) to locate pier piles (where feasible), bulkheads, revetments, slopes, and retaining walls.

   iv) Hydrographic survey extending from area underneath pier to feet waterward. To include identifying slope of underwater revetment.

   v) Show adjacent parcel boundaries (where applicable).

   vi) Provide maps and digital files of survey results.

   b) **Horizontal Coordinate System and Vertical Datum:** Arc shall confirm and utilize as the horizontal datum the Florida State Plane Coordinate System, East Zone, North American Datum of 1983 (NAD83). Arc shall confirm and utilize as the vertical datum the National American Vertical Datum of 1988 (NAVD88) and reference soundings to the current tidal datum's for this region.

2) **Schedule of Deliverables:**

   a) One 3-D CAD file containing topographic and hydrographic survey results and mapping products.
   b) One set of ASCII computer files containing the base DTM data (breaklines, edge lines, spot elevation points, etc.).
   c) One set of signed and sealed record drawings depicting the results of the survey.

3) **Total Lump Sum Fee Schedule Topographic and Hydrographic Survey:** **$6,958**

TOTAL FEE SUMMARY Topographic and Hydrographic Survey					
TASK		Rate:	Units		Cost
Topographic Survey	$	173.41	12	$	2,050.23
Hydrographic Survey	$	312.68	10	$	3,120.68
Processing / Mapping	$	87.10	16	$	1,393.60
Project Management	$	169.79	2	$	339.58
Total Fee Estimate:				$	6,958.09

Arc Surveying and Mapping appreciates the opportunity to work with you on this project and are available to answer any questions or concerns you may have.

Sincerely,

Richard Sawyer

Richard J. Sawyer, PSM, Certified Hydrographer

Meskel & Associates Engineering
Geotechnical ▸ Environmental ▸ Inspection ▸ Testing

February 12, 2019

Mr. Timothy P. Mason, P.E.
Applied Technology & Management
2200 N. Ponce de Leon Blvd, Suite 9
St Augustine, FL 32084

Subject: Proposal for Geotechnical Exploration and Engineering Services
St. Johns Marina Boat Landing Dock Inspection
Jacksonville, Florida
MAE Proposal No. 003319

Dear Mr. Mason:

MESKEL & ASSOCIATES ENGINEERING, PLLC (MAE) is pleased to present this proposal to provide the geotechnical exploration and engineering services for the subject project. This proposal was requested by you via electronic correspondence on January 17, 2019. This correspondence included a summary of the project details. This proposal includes a scope of services for replacement of the proposed fixed dock.

It is our understanding that ATM has been requested by the City of Jacksonville to provide an estimate for the repair/replacement of the existing docks. The existing docks are part of the Riverwalk on the south bank of the St. Johns River. The existing docks are approximately 300 feet long. We understand that the water depth in this area is approximately 15 feet.

The objective of the geotechnical exploration is to provide sufficient site and subsurface information to evaluate the subsurface conditions for the proposed construction. Based on the provided information, the following tables summarize our proposed scope of services.

BASE SCOPE OF SERVICES		
Test Location	**Test No. & Type**	**Test Depth ft below existing mudline**
Water Borings (Dock)	2 Standard Penetration Test (SPT) Borings [1]	50 [2]

1. Boring locations will avoid impacting the navigable channel of the St. Johns River.
2. The test depth from the barge deck is 95 feet (5 feet from barge deck to water line, 15 feet from water line to mudline). Boring termination elevation will be approximately 50 feet below the mudline.

During the preparation of this proposal, we consulted with numerous marine contractors, pile driving contractors, and tug operators regarding the type of drill rig and barge necessary to complete this scope safely. Due to the location of the borings (close to the shore on the south bank), the use of a spud barge will not be necessary.

The boring locations appear to be accessible with our barge/amphibious-mounted drilling equipment. We will locate the borings using our hand-held GPS equipment, accurate to within 3 meters (+/- 10 feet).

In accordance with Florida law, we will attempt to locate existing underground utilities at the site by utilizing the Sunshine State One-Call (SSOC) system. Any private utilities not included in the SSOC system will need to be located by the Owner. It should be noted that utility locate services require 10 business days for all utility locate requests within a navigable waterway. All SPT borings will be performed in general accordance with ASTM D1586 procedures.

Prior to mobilization, we will ensure a Notice-to-Local-Mariners is broadcast to ensure all mariners are aware of our work outside of the navigable channel of the St. Johns River. Since the proposed work zones are outside of the channel, a United States Coast Guard permit is not required.

Once the SPT borings are completed, they will be backfilled with grout per St. Johns River Water Management District guidelines. We will take all reasonable precautions to prevent damage to the existing structures. The recovered soil samples will be described in the field by the field crew. The field logs and samples will be delivered to our laboratory, where the logs will be reviewed, and the samples will be classified, by a geotechnical engineer in general accordance with ASTM D2488.

If unusual or unanticipated soil conditions are encountered during drilling prior to or at the anticipated termination depths, we will contact immediately to discuss the matter. We will not explore to depths beyond our scope of services without your consent.

Laboratory classification and soil index property tests will be performed in general accordance with ASTM procedures for each applicable test as necessary on selected soil samples to confirm the soil classification and provide engineering characteristics to estimate compressibility.

A geotechnical engineer, licensed in the State of Florida, will direct the geotechnical exploration and provide an engineering evaluation of the subsurface conditions encountered at the boring locations. The results of the exploration and engineering evaluation will be documented in a report that will include the following:

- Our understanding of the planned construction and general description of the project;
- A boring location plan detailing the location of each boring and type of equipment used;
- Field exploration procedures and soil sampling (and rock coring, if requested) methods used;
- Graphical representation in profile view of our boring logs and stratification which will detail the number of borings performed, description and thickness of each soil layer, any fluid loss(es) during drilling, and SPT-N values at each sample interval;
- The laboratory test procedures performed, and the results obtained,
- Recommendations for axial capacity (both compression and uplift) and lateral capacity based on for each pile alternative; and
- Recommendations for pile installation and testing during construction.

Based on the scope of the services outlined above, we propose to complete our work for the estimated fee shown in the table below.

8936 Western Way, Suite 12
Jacksonville, Florida 32256
Phone: (904)519-6990 | Fax: (904)519-6992

SCOPE OF SERVICES	
DESCRIPTION	ESTIMATED FEE
Field Exploration and Mobilization, Laboratory Testing, Engineering Analysis and Report (LUMP SUM)	**$ 20,900.00**

This fee includes submittal of a digitally signed and sealed report. Paper copies of our report are available at an additional fee of $50 per copy. We will contact you immediately if we encounter subsurface conditions that could require the borings to be advanced to deeper depths, and/or if additional engineering analysis/evaluation outside the scope of this proposal is necessary.

Once authorization is received, a utility locate request will be submitted. We will mobilize our equipment to the site within one week once the utilities have been located and marked, which is 10 working days after the request is made. We anticipate the field work will take 3 days to complete. Verbal results can be provided within 2 to 3 days after completion of the field work. Laboratory testing will take up to one week to complete depending on the amount of lab testing assigned. We plan to submit our engineering report within 3 weeks following completion of the field exploration and laboratory testing programs.

We appreciate this opportunity to provide this proposal for your project. If you have any questions concerning this proposal, or if we can serve you in any other way, please contact us.

Sincerely,
MESKEL & ASSOCIATES ENGINEERING, PLLC

Brett H. Harbison

Brett Harbison, P.E.
Director, Geotechnical Services

Distribution: Mr. Timothy Mason, P.E. – ATM One e-mail copy

Phillip,

Our fee for the electrical design for the St. Johns Marina Boat Landing is **$5,000**. Details are as follows:

Electrical Design. Electrical design services shall include the design, plans and specifications for lighting, and general purpose power. Specifically, the CONSULTING ENGINEER shall perform engineering calculations to include: short circuit, electrical load, voltage drop, and lighting calculations. The ENGINEER shall provide related plans, riser diagrams, panel and lighting schedules and electrical details as necessary to fully describe the electrical distribution system. Additionally, the design for communication systems shall be limited to providing power, raceways, and boxes for such systems. It is assumed that the existing electrical service is adequate for the renovation and won't require replacement.

Exclusions. The following items are excluded from the Contract: Preparation of OMSI manuals; cost estimating; reproduction costs; BIM modeling or BIM design drawings; utility surveys; attendance at construction meetings; DQC responsibilities; hazardous material surveys or abatement; participation in commissioning or testing; metering of electrical equipment or feeders to establish demand; protective device coordination or arc flash studies; LCCA, Performance Rating Method or other energy analyses; LEED certification documentation and any other engineering support for LEED accreditation or any other sustainability program; mechanical, plumbing, civil, structural or seismic engineering; security or audio visual system design; permitting; fire protection, cathodic protection and emergency power systems. Also excludes the design of shore power or fueling stations.

Construction Administration (CA). The CONSULTING ENGINEER shall perform a submittal review for equipment submitted and advise the ENGINEER as to whether the submitted items meet the requirements of the design. The submittals (and any resubmittals) shall be sent to the CONSULTING ENGINEER in one package per discipline.

We will generate a formal contract if the project moves forward. Phillip, thanks again for including us on your team. We do appreciate this opportunity and look forward to working with you on the project. Let me know if you want to discuss this further.

Best, Cliff

SIMES & ROSCH
ENGINEERING
Clifton C. Simes, P.E.
Electrical Engineer - Principal

LOGAN DIVING & SALVAGE

2815 SAINT JOHNS BLUFF
JACKSONVILLE, FLORIDA 32246
TEL: (904) 731-0000 FAX: (904) 731-5493
MARINE SPECIALTY CONTRACTOR
FL SCC131151014
FEBRUARY 6, 2019

PHILLIP CLANCY
ASSOCIATE ENGINEER
APPLIED TECHNOLOGY & MANAGEMENT
411 PABLO AVENUE, JACKSONVILLE BEACH, FL 32250
PCLANCY@APPLIEDTM.COM 904 310 1902 OFF / 717 798 1070 CELL

RE: COJ DOCK SUBSTRUCTURE INSPECTIONS

MR. CLANCY,

THIS WILL COMPLY WITH YOUR REQUEST FOR PROPOSAL CONCERNING THE REFERENCED.

LOGAN DIVING & SALVAGE PROPOSES TO PROVIDE FULL TIME SUPERVISION, OSHA 3-MEMBER DIVE TEAM, DIVE BOAT, UNDERWATER STILL CAMERA, DIVING RELATED EXPENDABLES, AND INSURANCE TO DIVE AS DIRECTED AS FOLLOWS:

1) PROVIDE SCHEDULED MOBILIZATION OF MEN AND EQUIPMENT
2) PROVIDE 3-MEMBER OSHA/ADCI CERTIFIED COMMERCIAL SURFACE SUPPLIED DIVE TEAM
3) PROVIDE DIVE BOAT, TRUCK, AND TRAILER
4) PROVIDE LEVEL I VISUAL/PHYSICAL INSPECTION OF ALL SUBSTRUCTURE PILING, CROSS MEMBERS, CAPS AND HARDWARE FROM THE SUB DECK ELEVATION TO THE U/W GROUND LINE
5) SOUND PILING DURING INSPECTION LOOKING FOR OBVIOUS MAJOR DEFECTS
6) DOCUMENT CURRENT EXISTING TYPICAL OVERALL CONDITIONS ABOVE AND BELOW THE WATERLINE
7) PROVIDE REPORT OF INSPECTION DOCUMENTING EXISTING CONDITIONS COMPLETE WITH STILL PHOTOS AND RECOMMENDATIONS

SOUTH BANK RIVER WALK @ RIVER CITY BREWING
(43 PILING AND ASSOCIATED SUBSTRUCTURE MEMBERS)
TOTAL LUMP SUM.....$4060.00

METRO PARK MARINA
(168 PILING AND ASSOCIATED SUBSTRUCTURE MEMBERS)
TOTAL LUMP SUM.....$9240.00

DAMES POINT FISHING PIER
(8 PILING AND ASSOCIATED SUBSTRUCTURE MEMBERS)
TOTAL LUMP SUM.....$3220.00

PAYMENT TERMS: NET 30 DAYS

PROPOSAL SUBJECT TO OUR STANDARD TERMS AND CONDITIONS POSTED UNDER SERVICES @ WWW.LOGANDIVING.COM .

INSURANCE CERTIFICATES WILL BE SENT DIRECT FROM OUR AGENTS INCLUDING GL AND ALL APPLICABLE COVERAGE'S AS THEY APPLY TO COMMERCIAL DIVING OPERATIONS ON NAVIGABLE WATERS OF THE TERRITORIAL AND CONTINENTAL UNITED STATES.

WE TRUST YOU WILL FIND OUR PROPOSAL TO BE COMPLETE AND SATISFACTORY, PLEASE CALL WITH ANY QUESTIONS OR DIRECTION TO INCREASE OR DECREASE THE SCOPE OF WORK TO BEST MEET YOUR NEEDS.

THANK YOU FOR THIS OPPORTUNITY TO BE OF SERVICE.

BEST REGARDS,

/S. C. ANDERSON/

SCOTT ANDERSON
PRESIDENT
LOGAN DIVING & SALVAGE
SANDERSON@LOGANDIVING.COM
WWW.LOGANDIVING.COM

ACCEPTED _____
NAME_____
PRINTED NAME_____
COMPANY_____
DATE_____