



**MARTIN COUNTY BOARD OF COUNTY COMMISSIONERS
CHANGE ORDER TO CONSTRUCTION AGREEMENT**

PROJECT NAME	<u>MC Mooring Fields-Manatee Pocket</u>	CHANGE ORDER #	<u>4</u>
PROJECT #	<u>RFQ2017-2921</u>	CO DATE	<u>4/9/2020</u>
CONTRACT DATE	<u>5/17/2017</u>		

The Contract is changed as follows:

Description	Amount
Additional services to replace and upgrade damaged dock from hurricane at Manatee Pocket Mooring Field	
Total	\$ 17,090.00

Original Contract Sum	\$ 192,711.00
Net Change by Previously Authorized Change Orders	\$ 99,935.00
Contract Sum Prior to This Change Order	\$ 292,646.00
Amount of this Change Order	\$ 17,090.00
New Contract Sum	\$ 309,736.00

Contract Time Increase(calendar days)	<u>0 days</u>
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APPLIED TECHNOLOGY & MANAGEMENT

Michael G. Jenkins, Ph.D., P.E.
Coastal Engineering Principal

**BOARD OF COUNTY COMMISSIONERS
MARTIN COUNTY, FLORIDA**

Terry Rauth, P.E.
Public Works Director



2201 NW 40th Terrace
GAINESVILLE, FL 32605
(386) 256-1477
WWW.APPLIEDTM.COM

9 April 2020

Kathy Fitzpatrick, Coastal Engineer
Martin County
Board of Commissioners
2401 SE Monterey Road
Stuart, FL 34996

RE: Martin County Mooring Fields – Manatee Pocket Mooring Field Additional Services

Dear Ms Fitzpatrick:

Applied Technology and Management, Inc. (ATM) is pleased to provide you with this Scope of Services for the above referenced project. This effort will be conducted by ATM under the terms of our Professional Services Agreement with Martin County.

Introduction

ATM has previously completed several services related to the engineering and financial feasibility of developing a managed mooring field in Manatee Pocket, approaches to securing management and landside facilities via a public/private partnership, grant support, and obtaining environmental permits. The mooring field and dinghy dock require design services and the dinghy dock may also require permits for its replacement. Additionally, we have identified other additional services that will be required.

Please accept this first version of the proposal as a shopping list for review and comment and we will revise to meet the County's current needs and schedule.

Scope of Services

The following is a description of the Tasks which will be conducted to satisfy the Scope of Services to be provided under this Work Proposal.

PHASE 2 – MANATEE POCKET MOORING FIELD

Task 1 – Final ADA Dinghy Dock/Waterfront Promenade Concept Design

The current low-freeboard timber promenade and courtesy dock at the County park is not accessible to Americans with disabilities and the deck is underwater on king tides. Its condition is deteriorating and the backside is currently inaccessible to vessels or dinghies. This latter issue will create a situation where dockage will be inadequate on weekends when both the mooring field dinghies will be using the dock and local day use boaters are docking at the facility to patronize local businesses in the Pocket.

The County is proposing to replace the current timber fixed access pier, add needed ramps and gangways to make the dock accessible under the American's with Disabilities Act (ADA), and install a shore parallel floating dock to replace the low freeboard fixed pier. ATM will develop design concepts for County review and complete a final concept plan to use for permitting and advancement into preliminary design.

Task 2 – Dinghy Dock Permit Support

We believe that the proposed dinghy dock should qualify for an exemption under state rules and a nationwide permit from the US Army Corps of Engineers (NWP 28). However, we could not get a definitive answer from FDEP, so the project may require an individual permit. If the individual permit is indeed required, we will assess the level of effort needed to complete the process and potentially request a change order but the state assured us that it should be a straight-forward process.

Task 3 – Submerged Lands Lease Support

ATM will coordinate with a surveyor to complete a submerged lands lease survey for the dinghy dock. We assume that this exercise will allow for the severance dinghy dock area from the commercial fishing area lease.

Task 4 – Waterway Marker Permit Support

ATM will provide support to the County as needed with drawings, coordinates, technical descriptions, etc. for application to the FFWCC Office of Boating and Waterways and the USGS for waterway marker permits.

Task 5 – Project Meetings

ATM will attend meetings as requested in Martin County with the public or the project team. ATM will send two representatives familiar with the project. The budget number assumes one meeting, but each meeting's labor is included in the estimate. Per meeting expenses are also estimated.

Future Tasks

Preliminary Design

To support the construction documents, ATM will develop design basis information and develop requests for proposals for a bathymetric survey of the mooring field and dinghy dock areas. Additionally, ATM will prepare an RFP for geotechnical contractors to complete the necessary borings, calculations and report for the mooring field anchors, the fixed pier piling, and the floating dock anchor piling. The design basis information will include normal and design water levels, design wind speeds, water depths and currents, etc.

Project Bidding, Construction Support and Certification

With final permits ATM will support project bidding, construction and certification. Specific sub-tasks include:

Preparation of Bid Documents and Bid Support

ATM will prepare documents and drawings to support project bidding. ATM will work with County staff in the preparation of bid documents consistent with County standards. ATM will prepare a construction bid drawing set and technical specifications, review and provide input towards front end (general) specifications for the project and participate in one pre-bid meeting with potential contractors. ATM will respond to any Requests for Information (RFI) received during the bid process and review received bids for consistency with the bid documents and provide a recommendation for award.

For this Task, ATM recommends using a performance-based specifications approach. This approach will allow competitive bidding from established mooring anchor manufacturers (Helix®,

Dor-Mor®, etc.) using their proprietary design. ATM understands that the current design specifies a 10,000-pound anchor pull. The current specifications may be altered during the design process based on local soil conditions and cost constraints.

Construction Oversight

ATM will provide engineering construction support services on an as needed basis as required for Project Certification and as directed by the County. ATM will provide construction observation through regular on-site review of progress with the contractor and County. On-site visits will be conducted based on construction progress by the Contractor and in consultation with the County. ATM will observe the construction with regard to the Contractor's compliance to the contract plans and specifications and regulatory permit conditions. ATM will notify the County and construction Contractor of any observed deficiencies. ATM will provide on-site coordination with the Contractor and County as part of this task. During the construction process ATM will provide administrative support on an as-needed basis including Contractor coordination and review of Contractor invoices. Upon notification from the Contractor of completion of construction, ATM will coordinate a site inspection and develop a punch-list for the Contractor to complete prior to a recommendation for final payment. ATM will coordinate with the County and Contractor as necessary to address field changes, payment requests, punch list completion, and permit-required submittals to the regulatory agencies. Construction observations will be conducted by local ATM staff within experience in Marine Construction.

Project Certification

ATM will prepare Project Certification documentation for submittal to the FDEP and USACE. ATM will review as-built survey documentation of project construction as part of project certification. This effort will include development of signed and sealed Project Certifications for both the FDEP and USACE.

Compensation

This effort will be conducted on a Lump Sum/Percent Complete Basis consistent with ATM's current Professional Services Agreement with Martin County for a total cost of **\$ 17,090**. Task costs are summarized below and a detailed cost breakdown is provided as Attachment A.

COST BREAKDOWN BY TASK

TASK	Labor	Expenses	TOTAL
PHASE 2 MANATEE POCKET MOORING FIELD			
Task 1 – Final ADA Dinghy Dock/Waterfront Promenade Concept Design	\$2,200		\$2,200
Task 2 – Dinghy Dock Permit Support	\$7,500		\$7,500
Task 3 – Submerged Lands Lease	\$3,000		\$3,000
Task 4 – Waterway Marker Permit Support	\$1,000		\$1,000
Task 5 – Project Meetings (per meeting)	\$2,600	\$790	\$3,390
TOTAL	\$16,300		\$17,090

We sincerely appreciate the opportunity to provide you with this proposal. Should you have any questions, please feel free to contact me at your convenience.

Sincerely,
Applied Technology & Management, Inc.



Robert H Semmes, MS
 ATM Associate Principal