



**WORK ASSIGNMENT NUMBER: MC-04
CHANGE ORDER NO. 2
PROJECT NO: 6082091**

**PROJECT TITLE: FY14 MARS SUPPLY MANAGEMENT IMPROVEMENTS
DATE: JULY 10, 2020**

Pursuant to the Manatee County, Florida, Agreement for Utility Architectural/Engineering Services (RFP No. 12-0588BG) entered into by and between the COUNTY OF MANATEE, FLORIDA, hereinafter referred to as the "COUNTY" and McKim & Creed, Inc., hereinafter referred to as the "Consultant", a determination has been made by the COUNTY that there is a need for the performance of or rendering of services by the Consultant of a certain "Work Assignment" under the purview of said Contract, and the Consultant is hereby authorized to perform or render the particular services of work described as follows:

TITLE OF THE PROJECT: FY14 MARS SUPPLY MANAGEMENT IMPROVEMENTS

TASKS OF PROFESSIONAL SERVICES AUTHORIZED:

Consultant shall perform tasks as more specifically detailed in attached SCOPE OF SERVICES, Task 9. This work assignment shall remain in effect until completion of the project.

Compensation to the Consultant for rendering the services and products identified in the SCOPE OF SERVICES shall not exceed:

TASK	TASK DESCRIPTION	TOTAL
	Original Cost for Work Assignment MC-04	\$ 730,210
	Task Descriptions - Change Order #1	
8A	<i>SMR Meter Assemblies</i>	\$ 10,907
8B	<i>Manatee Fruit Meter Modifications</i>	\$ 9,625
8C	<i>SWWRF Transfer Pump Station</i>	\$ 40,430
8D	<i>Additional Construction Phase Services</i>	\$ 6,804
	Task Descriptions - Change Order #2	
9	<i>Additional Construction Phase Services</i>	\$ 11,795
	TOTAL COST	\$ 809,771

The budget for design and construction for this project is approximately \$4,890,000. Any modifications to the project resulting in increases to prior cost estimates or potential overruns shall be communicated to Manatee County, in writing prior to initiation of work, for approval by the Contract Manager.

COUNTY may authorize, in writing, in advance, adjustments in the compensation for particular tasks established above, provided such adjustments do not exceed the maximum compensation authorized for this Work Assignment. Partial compensation may be requested on a monthly



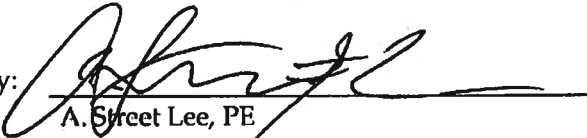
basis for unit prices and actual hours incurred but not to exceed the percentage of the tasks completed.

The Work Assignment start date will be the date of authorization by Manatee County. This Work Assignment will remain in effect through the completion of the services outlined in the original Work Assignment, Task 8, Task 9 and acceptance of the project by Manatee County.

Work Assignment Number MC-04
CHANGE ORDER No. 2
"FY14 MARS SUPPLY MANAGEMENT IMPROVEMENTS"
County Project # 6082091

McKim & Creed, Inc.
1365 Hamlet Avenue
Clearwater, Florida 33756

By:


A. Street Lee, PE
President of Engineering

Date:

8/13/20

COUNTY OF MANATEE, FLORIDA

By:

Jacob Erickson, MBA
Interim Procurement Official

Date:



McKim & Creed, Inc.
Scope of Services
FY14 MARS Supply Management Improvements – Change Order No. 2
Manatee County
JULY 10, 2020

PROJECT DESCRIPTION

Manatee County Utilities Department (County) owns and operates the Manatee Agricultural Reuse System (MARS) that produces and distributes Part III reclaimed water (RCW) for beneficial reuse throughout the county. To better manage the supply and distribution of RCW to their end users, the County retained McKim & Creed, Inc. to provide engineering consulting services for the evaluation, design, and construction phase services for the facilities and controls required to meet their long-term RCW goals. These goals generally include the ability to provide the County with a centralized location, which can monitor, control, and automate the operation of the RCW system. These improvements will also provide the County with the ability to better monitor localized system flows and pressures, limit flows where indicated, and to provide the ability to manage the storage of RCW within the respective service areas in the system.

During the course of the original Work Assignment, additional engineering services have been identified and requested by the County for successful project implementation.

As part of Change Order #1 the County requested design modifications to the reclaimed water connections for Schroeder Manatee Ranch (SMR) and Manatee Fruit Company. In addition, the County identified a need to address problems experienced with the Transfer Pump Station at the Southwest Water Reclamation Facility.

The following scope of services includes additional construction phase services associated with the prolonged construction duration and integration of lake levels at the NWRF, SWWRF and SEWRF into the SCADA screens.

SCOPE OF SERVICES

The Consultant shall perform the following tasks under this work assignment:

TASK 9 ADDITIONAL CONSTRUCTION PHASE SERVICES

A. Additional Construction Phase Services

It is the intent to extend the Limited Construction Phase Services outlined in Task 5 of the Scope of Services to capture the prolonged effort required to provide construction phase services beyond the anticipated 18-month



construction period to the date of final completion. Services include periodic site visits, monthly progress meetings, record drawings, review of monthly pay applications and resolution of final punch list items.

B. Lake Level SCADA Integration

Consultant will integrate the results of the Reuse Water Storage Ponds Capacity Analysis performed by others to calibrate the lake levels at the NWRF, SWWRF and SEWRF. This work will integrate the lake levels into the SCADA screens. The programming of the lake levels is anticipated to require data verification, field investigation and meetings with County staff.

STAFFING – KEY PROJECT TEAM MEMBERS

Principal	Street Lee, PE
Senior Project Manager (QA/QC)	Mitch Chiavaroli, PE
Senior Project Manager (Instrumentation)	Gene Robinson, PE
Project Manager	Blake Peters, PE
Sr. Engineer/Scientist (Electrical)	Aubrey Haudricourt, PE
Sr. Engineer/Scientist (Instrumentation)	Mike Tweedel, PE

COMPENSATION

The cost proposal in Exhibit 1 is based on the hourly rates as established in Exhibit "B" to the Agreement for Utility Architectural Engineering Services.

EXHIBIT 1 - HOURS AND COST ESTIMATE
 FY14 MARS SUPPLY MANAGEMENT IMPROVEMENTS
 COUNTY PROJECT # 6082091
 MANATEE COUNTY, FL

Task 9: Additional Construction Phase Services													
TASK	Description	\$193	\$165	\$161	\$145	\$130	\$110	\$87	\$86	\$65	\$65	Total Man-hours	TOTAL PROJECT
		Project Principal	Sr. Project Manager	Sr. Eng Scientist	Project Manager	Sr. Project Engineer	Project Engineer	Designer / Technician	CADD Supervisor	CADD Technician	Admin Assistant		
A	Additional Construction Phase Services				18		24	40			4	86	\$8,990
B	Lake Level SCADA Integration		7				15					22	\$2,805
	Total Man-hours	0	7	0	18	0	39	40	0	0	4	108	
	Total Man-hour Cost	\$0	\$1,155	\$0	\$2,610	\$0	\$4,290	\$3,480	\$0	\$0	\$260		\$11,795
	Other Direct Costs												
	TOTAL COSTS												\$11,795