

CCNA2018 WORK ORDER 10
NORTH COUNTY SEWER & WATER SYSTEM – PHASE TWO
CONSTRUCTION ENGINEERING & INSPECTION

This Work Order Number 10 is entered into this ___ day of _____, 2021, pursuant to that certain Continuing Contract Agreement for Continuing Engineering Services, dated April 17, 2018, renewed and amended as of May 18, 2021 (collectively referred to as the "Agreement") by and between INDIAN RIVER COUNTY, a political subdivision of the State of Florida ("COUNTY") and Masteller & Moler, Inc. ("Consultant").

The COUNTY has selected the Consultant to perform the professional services set forth on Exhibit A (Scope of Work), attached to this Work Order and made part hereof by this reference. The professional services will be performed by the Consultant for the fee schedule set forth in Exhibit B (Fee Schedule), attached to this Work Order and made a part hereof by this reference. The Consultant will perform the professional services within the timeframe more particularly set forth in Exhibit C (Time Schedule), attached to this Work Order and made a part hereof by this reference all in accordance with the terms and provisions set forth in the Agreement. Pursuant to paragraph 1.4 of the Agreement, nothing contained in any Work Order shall conflict with the terms of the Agreement and the terms of the Agreement shall be deemed to be incorporated in each individual Work Order as if fully set forth herein.

IN WITNESS WHEREOF, the parties hereto have executed this Work Order as of the date first written above.

CONSULTANT:
MASTELLER & MOLER, INC.

BOARD OF COUNTY COMMISSIONERS
OF INDIAN RIVER COUNTY

By: 

By: _____

Joseph E. Flescher, Chairman

Print Name: Earl H. Masteller, PE, BCEE

Title: President

BCC Approved Date: _____

Attest: Jeffrey R. Smith, Clerk of Court and Comptroller

By: _____

Deputy Clerk

Approved: _____

Jason E. Brown, County Administrator

Approved as to form and legal sufficiency: _____

Dylan T. Reingold, County Attorney

EXHIBIT "A"

WORK ORDER NUMBER 10

NORTH COUNTY SEWER & WATER SYSTEM – PHASE TWO

CONSTRUCTION ENGINEERING & INSPECTION

GENERAL INFORMATION

The purpose of this Work Order is to authorize Masteller & Moler, Inc. to provide Construction Engineering & Inspection (CEI) services the Public Right-of-way portion of this project. The Indian River County Department of Utility Services (IRCDUS) has bid the project and has awarded the project to Centerline, Inc on April 20, 2021. We are pleased to report that the low bid is approximately \$3.9 million and this compares favorably to our Engineers Estimate of \$4.4 million and the budget, which IRCDUS established for the project in the amount of \$5,841,931 as reflected in the October 15, 2020 Board Memorandum, Table 2.

A brief description of the scope of services and deliverables for this Work Order is provided as follows:

SCOPE OF SERVICES

Task A– Construction Administration / Observation

Task A provides engineering services during the project’s construction and completion process generally including the following:

1. Upon issuance of the Notice to Proceed, schedule and conduct a pre-construction conference with involved/affected parties and record and maintain minutes of meeting. Conduct a pre-work walk through to document existing conditions with an emphasis on minimizing interruption of Utilities Dept. operations and vehicular traffic.
2. Review/evaluate Contractor's Maintenance of Traffic Plan and critical path schedule.
3. Process (catalog) and review shop drawing and material submittals and provide recommendations to Utilities Dept.
4. Conduct periodic progress meetings (record and maintain meeting minutes).
5. Interpret the project documents (contract, plans and specifications) to help facilitate the construction activities and to respond to issues raised by the Contractor.
 - Analyze and address problems that arise (trouble-shoot).
 - Value engineer project revision proposals and provide recommendations to Utilities Dept. for their direction.
 - Evaluate change orders and time extension requests.
6. Review Contractor pay requests and provide recommendations to Utilities Dept. to prevent delays and to facilitate prompt processing by the County.
 - Contractor's pay request will be submitted to the County with appropriate backup and recommendations for payment and/or withholding of payment.

7. Observe the Contractor's construction activities and materials incorporated into the work during periodic site visits.
 - Prepare and maintain written reports of the Contractor's progress and of significant events affecting the work.
 - Record noteworthy incidents or events with video and/or still photography.
 - Observe and document construction testing activities – including materials testing, utility testing, and other related activities.
 - Observe start-up of pumping systems to verify proper operation.
8. Review, comment and recommend approval to County of As-built plans.
9. Coordinate and conduct punchlist procedures beginning with Initial Walkthrough within five (5) days of Substantial Completion, and prepare Final Punchlist after construction completion.
10. Assemble data and provide project close-out procedures and Engineer’s Certifications as required.

Upon satisfaction that items of work have been completed in substantial conformance with the project documents, our office will assemble a construction completion package which will be submitted to the Utilities Dept. The package will include inspection reports; field survey data provided by the Contractor; testing data and final As-built plans provided by the Contractor.

Deliverables – The ENGINEER shall provide the COUNTY:

- a. Final Project Construction Completion Documents 1 Hard Copy Set & 1 Electronic

TIME SCHEDULE

The estimated time frame for completion of services:

Task A – Construction Administration / Observation (after Selected Contractor’s Notice of Commencement Date)	360 Calendar Days
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FEE SCHEDULE

Masteller & Moler, Inc. proposes to provide the outlined Scope of Services based on the following fees:

Task A – Project Construction Administration & Observation Services (Not To Exceed Fee - See Attached Estimated Fee Breakdown)	\$ 184,545.00
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WORK ORDER NO. 10 - ATTACHMENT 1

**INDIAN RIVER COUNTY NORTH COUNTY SEWER & WATER SYSTEM
PHASE TWO - CONSTRUCTION ENGINEERING INSPECTION SERVICES
PUBLIC RIGHT-OF-WAY PORTION OF PROJECT**

**ESTIMATED FEE BREAKDOWN
BASED ON 257 WORKING DAYS OR 360 CALENDAR DAYS**

	Professional Engineer		Project Manager		Project Inspector		Administration		Total Costs
		\$ 195.00		\$ 145.00		\$ 90.00		\$ 75.00	
	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	
Pre-Construction Meeting / Pre-work Walk-thru	18	\$ 3,510.00	16	\$ 2,320.00	10	\$ 900.00	1	\$ 75.00	\$ 6,805.00
Review Critical Path Maintenance of Traffic	2	\$ 390.00	8	\$ 1,160.00	-	\$ -	-	\$ -	\$ 1,550.00
Shop Drawings Review	16	\$ 3,120.00	40	\$ 5,800.00	-	\$ -	-	\$ -	\$ 8,920.00
Periodic Progress Meetings	8	\$ 1,560.00	16	\$ 2,320.00	16	\$ 1,440.00	-	\$ -	\$ 5,320.00
Address Issues Change Orders	24	\$ 4,680.00	60	\$ 8,700.00	30	\$ 2,700.00	6	\$ 450.00	\$ 16,530.00
Pay Request Reviews	12	\$ 2,340.00	16	\$ 2,320.00	-	\$ -	12	\$ 900.00	\$ 5,560.00
Construction Observations	150	\$ 29,250.00	300	\$ 43,500.00	560	\$ 50,400.00	-	\$ -	\$ 123,150.00
As-Built Review	12	\$ 2,340.00	48	\$ 6,960.00	-	\$ -	4	\$ 300.00	\$ 9,600.00
Walkthru / Initial Punchlist / Final Punchlist	-	\$ -	-	\$ -	28	\$ 2,520.00	4	\$ 300.00	\$ 2,820.00
Project Close-out / Certifications	8	\$ 1,560.00	12	\$ 1,740.00	6	\$ 540.00	6	\$ 450.00	\$ 4,290.00
Total (hrs/cost)	250	\$ 48,750.00	516	\$ 74,820.00	650	\$ 58,500.00	33	\$ 2,475.00	\$ 184,545.00

File # 1422-2
1422-2_Fee_Breakdown_manhours_21-0510_Public.xlsx