



Interoffice Memorandum

June 17, 2024

TO: Tracy Attenasio, Senior Contract Administrator
Procurement Division

THROUGH: Wayne McCoy, Financial Advisor
Utilities Fiscal & Operational Support Division

FROM: Lindy A. Wolfe, P.E., LEED-AP, Manager
Utilities Engineering Division

SUBJECT: REQUEST FOR CHANGE ORDER

Project: Phase 6A Additional Services
 TRAK M#: 038M000083
 Contract: Y19-818-TA
 Adv. PO#: C19818
 TRAK C/O#: C19818-4
 Amount: \$370,877.76
 Vendor: CDM Smith
 Fund Code: 4420-038-1538-0025-6310
 Project Mgr: Megan L. Nelson, P.E. (407-254-9927) *MLN* 6/17/2024
 Chief Eng: Lucy Gassaway, P.E. (407-254-9785) *ZDG* 6/17/24
 Const. Cost: \$80,365,360.00
 Plan File: 97026

CDM Smith, has submitted a price proposal for additional services under the terms of Contract Y19-818. This authorization includes additional services related to final design, permitting, and construction administration.

Curtis Stanton Energy Center (CSEC) is a significant industrial user of reclaimed water effluent from EWRf. CSEC is currently scheduled to decommission a coal fired portion of CSEC which will reduce the reclaimed water demands of the facility by 4 MGD by December 2025. OCU identified three (3) projects which were critical for the operation of the plant within the requirements of the current operating permit. The three projects were collectively bid as “EWRf Phase 6A” and are described as the project packages listed below:

- Package A: EWRf 6A Storage and Repump
- Package B: EWRf Internal Recycle (IR) Pump Replacement
- Package C: EWRf Motor Control Center (MCC) Replacement

This specific task authorization request is associated with project Package A. The three projects were originally designed separately, with the assumption that Packages B and C would complete construction first, and Package A would complete construction later. Initially, the three packages were scheduled to be bid separately on different construction timelines. However, news of the CSEC decommissioning necessitated that the three packages be bid together, with Packages C and A to be operational by December 2025, and Package B soon after that date. The bidding approach and construction milestones were adjusted to expedite the completion of assets critical for storing and pumping excess reclaimed water in the Public Access Reuse system.

Further, on June 4, 2024 Change Order No. 1 was approved amending the associated construction contract Y24-724 EWRf 6A to include construction of the Curry Ford Access Road and stormwater ponds. These assets were identified as critical for the completion of EWRf 6A and were previously unsuccessfully bid as part of Y24-712 on 11/22/23.



Interoffice Memorandum

This authorization will provide additional engineering services necessary to carry out the project successfully throughout construction. The level of effort required from the CDM Smith team will exceed that of the originally anticipated effort due to several impacts as described below.

1. Significant design changes, additional permitting requirements, and additional clarifications required due to the expedited schedule, the combination of three separate design sets of specifications for the different packages, and addition of the access road and stormwater.
2. Increased complexity of construction phase services due to added intermediate milestones, as required to meet the December 2025 deadline.
3. Increased construction phase services. This increase in construction coordination meetings is required to accommodate the combination of the three packages, ensuring that critical assets are operational by December 2025. Further, since the time of initial scope development, the lead times of several major project assets, specifically electrical equipment, have significantly increased due to market availability, further adding complexity to the construction schedule. This authorization accounts for the decision to issue Owner Direct Purchase of transformers to reduce the long lead impact on the overall construction schedule. These services will be performed in accordance with the NTE method.

	Total Amount
Original Board Approved Amt	\$3,000,000
Phase 1: Initial PO for PDR (11/09/2020)	\$485,985.97
Amendment 1: Add sub consultant (6/24/2021)	\$0.00
Phase 2 / Amend 2: Final Design, CA (8/17/22)	\$2,661,406.92
Amendment 3: Encumber Funds	\$0.00
Amendment 4: Additional Design + CA	\$370,877.76
Total Amended Contract Amount	\$3,518,270.65

Action Requested: APPROVAL AND ISSUANCE OF A CHANGE ORDER IN THE AMOUNT OF \$370,877.76 TO CDM SMITH

District 4 - BCC Approval IS Required

FY 24 -\$107,004.43 (NTE)

FY 25 -\$166,656.84 (NTE)

FY 26 - \$97,216.49 (NTE)

cc: Charles "Tad" Parker, P.E., Assistant Manager, Utilities Engineering Division Charles S. Parker
Jay Hutchinson, Utilities Services Coordinator, Utilities Engineering Division
Emily Martinez, Program Coordinator, Utilities Engineering Division

Digitally signed by Charles S. Parker
Date: 2024.06.26 10:32:36 -0400

PRICE NEGOTIATION MEMORANDUM

This memorandum must be completed for non-competitive procurements exceeding \$100, 000 and for change orders to existing contracts that will require Board approval. The purpose of this form is to create an audit record evidencing that negotiations were conducted with the contractor/consultant/vendor, the extent of such negotiations, and the overall price offered is fair and reasonable.

I. **Subject:** EWRP Phase 6A
Contract Number
Y19-818
Contract Title

II. **Introductory Summary:**

Negotiations for the purchase of: Professional Engineering Services
Product/Services

Were completed on: 6/7/2024

Date

With: CDM Smith

Contractor/Consultant/Vendor

The County's estimate, the Contractor's/Consultant's/Vendor's offer, and the agreed upon price are compared below. Each figure is based on the contract being firm-fixed-price.

County's Estimate	Contractors/Consultants/ Vendors Offer	Agreed Upon Price
<u>\$400,000</u>	<u>\$438,315.14</u>	<u>\$370,877.76</u>

III. **Particulars:**

A. Complete Name and Address of Company CDM Smith
101 Southhall Ln #200 Maitland 32751

B. Lump Sum/Not-to-exceed Lump Sum

C. Unit prices, (if applicable) quoted and negotiated. If many, attach as a schedule.

Proposed

NA

Negotiated

NA

D. Name and titles of persons representing the contractor/consultant and the County in the negotiations, identifying the principal negotiators:

<u>Name</u>	<u>Title</u>	<u>Organization</u>
<u>Megan Nelson</u>	<u>Senior Engineer</u>	<u>OCU</u>
<u>Lucy Gassaway</u>	<u>Chief Engineer</u>	<u>OCU</u>
<u>Greg Isaacs</u>	<u>Project Manager</u>	<u>CDM Smith</u>
<u>Eric Grotke</u>	<u>Vice President, CDM Smith</u>	

IV. Procurement Situation:

A. Describe what was discussed, and include any outside influences and time pressures.

Orange County Utilities Department (OCUD) has requested CDM Smith to provide professional engineering services associated with the design of EWRF Phase 6A plant upgrades. The primary objective of this task authorization is to prepare the final design documents, permitting, bidding assistance, and construction administration services including preparation of record drawings.

B. Shows the delivery schedule or period of performance. If there are differences between the schedule desired or required and that proposed by the Contractor/Consultant/Vendor discuss the resolution or compromise, if any.

Once the PO from OCU is issued, it is anticipated that the work can be completed within 24 months. Timely completion of this project and adherence to the anticipated schedule is essential as this plant upgrade provides for necessary increased storage and pumping according to projected demands.

V. Negotiation Summary:

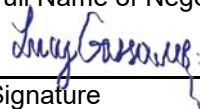
A. Summarize the Contractors/Consultants/Vendors pricing proposal, the County's negotiation objective and the negotiation results and the reasons the agreed upon price is fair and reasonable.

The final accepted scope is the second version presented to OCU. The initial scope was negotiated based on specific technical components to be included, effectively reducing the initial offer by \$68k. After several discussions regarding technical scope negotiations and associated costs, the final proposal was agreed upon. The estimated construction costs for Package A were compared to the proposed fee (8.2%) and found to be fair. Further, this scope includes 20 additional drawings (commonly estimated at up to \$15k per sheet) and up to 8 additional construction meetings, 10 additional RFIs, and three additional change orders to accommodate the expedited schedule and coordination between separate design packages. We concluded the price is a fair reflection of the scope and in line with similar efforts for other projects.

<u>Construction Cost</u>	<u>\$80,365,360 TOTAL / \$43,044,00 (Package A)</u>
<u>Board Approved Amount for CDM</u>	<u>\$3,000,000 (+5% or \$150,000)</u>
<u>Net Dollars Previous Authorizations:</u>	<u>\$3,147,392.89</u>
<u>Net Dollars this Change Order:</u>	<u>\$370,877.76</u>
<u>Total Amended Contract Amount / % of Construction:</u>	<u>\$3,518,270.65 / 8.2%</u>

The contractor's/consultant's/vendor's proposal is considered fair and reasonable and execution of the contract/change order/amendment is recommended.

Lucy Gassaway
Full Name of Negotiator


Signature

6/21/24
Date

**Y19-818-TA
EXHIBIT A
AMENDMENT NO. 3 TO
CONTRACT NO. Y19-818-TA
(PO C19818)**

**ORANGE COUNTY UTILITIES DEPARTMENT
EASTERN WATER RECLAMATION FACILITY (EWRF) PHASE 6A PLANT
RECLAIMED WATER SYSTEM EXPANSION PROJECT (7.5.2024)**

This Authorization, when executed, shall be incorporated in and become part of the Agreement for Professional Services between the Orange County (COUNTY) and CDM Smith Inc. (CONSULTANT), dated September 23, 2020 hereafter referred to as the Agreement.

PROJECT BACKGROUND

The Eastern Water Reclamation Facility (EWRF) treats wastewater from residential, commercial, and industrial customers in the COUNTY's Eastern Service Area by means of advanced wastewater treatment. The EWRF is located at 16921 South Alafaya Trail, Orlando, Florida 32828. EWRF is currently permitted, under Florida Department of Environmental Protection (FDEP) Permit No. 0038849, for 24 million gallons per day (MGD) annual average daily flow (AADF) of total treatment capacity. The effluent from the EWRF is discharged to four FDEP permitted sites, Rapid Infiltration Basins, Wetland System, Orlando Utilities Commission's (OUC) Stanton Energy Center, and the Slow Rate Public Access Reuse (PAR). The PAR system serves the COUNTY's Reclaimed Water East Service Area (ESA). The current PAR system operated by the COUNTY Utilities Department includes one 3-million gallon (MG) reclaim water storage tank and a pump station. The CONSULTANT has completed the final design documents and permitting for the Phase 6A expansion of the EWRF's reclaimed water system (Project). The Project as outlined in the Preliminary Design Report (PDR) includes three 3.0 MG reclaimed water storage tanks, a new high service pump station with four 4,000 gallons per minute (GPM)/350 horsepower (HP) pumps, electrical equipment, connection to emergency power, a flow meter station, site improvements, replacement of the seven existing effluent pumps at the Phase 1/2 effluent pump station, and valving modifications at the Phase 3 effluent pump station.

The Phase 6A reclaimed water system expansion will provide additional reclaimed water storage and pumping facilities improvements at the existing PAR Phase 4B facility. These improvements are necessary to address the needs of future development and existing customers within the COUNTY's Reclaimed Water ESA. OUC's Stanton Energy Center is converting its two coal plants to natural gas, eliminating this effluent disposal site beyond 2027.

As a result of combining this Project(Y19-818-TA) during the bidding phase with two projects at the EWRF site designed by Black and Veatch, and the need by the COUNTY to expedite the bidding process because of OUC's schedule, there are additional services that were or are anticipated to be performed as noted in the Scope of Work.

SCOPE OF WORK

Task 12A – CONSTRUCTION PHASE ENGINEERING SERVICES

Task 12.1A – Conformed Drawings, Specifications, Building Permit Support and Gopher Tortoise Relocation Services

No change.

Task 12.2A – Construction Progress Meetings

CONSULTANT will coordinate and attend additional meetings with the design teams of the three construction packages and the Contractor for coordination of areas of overlap, conflicts, timing/schedule, and commissioning. The CONSULTANT anticipates eight additional virtual (1 hour) meetings to address these items.

The CONSULTANT anticipates three additional virtual (1 hour) meetings due to the inclusion of the access road project to this Project.

The CONSULTANT anticipates eight additional virtual (1 hour) meetings to coordinate the changes required for the stormwater changes to the Project.

Task 12.3A – General Administration of Construction Contract

CONSULTANT will coordinate with the different construction packages. CONSULTANT is responsible for Package A. The Engineer of Record for Packages B and C is Black and Veatch. Package A is considered to be the primary Package, which is anticipated to require additional coordination.

Task 12.4A – Clarifications and Interpretations

For clarifications and interpretations, the CONSULTANT will receive, review, provide responses and distribute up to 10 additional requests for information from the Contractor. The basis of cost includes 3 hours for each request for information.

Task 12.5A – Change Orders and Work Change Directives

CONSULTANT anticipates three additional potential individual change items due to the expedited bidding of the Project that will be submitted for review as Work Change Directives relating to the CONSULTANT'S design.

Due to the changes listed in Task 13, the CONSULTANT anticipates five potential individual change items that will be submitted for review as Work Change Directives related to the CONSULTANT'S design.

Task 12.6A – Shop Drawings and Other Submittals

The intent is for the Contractor to submit shop drawings separately for each construction package. And the CONSULTANT will review submittals related to Package A only. However, CONSULTANT anticipates additional coordination to clarify each shop drawing has submitted to the appropriate construction package.

Task 12.7A – Substantial Completion

The CONSULTANT anticipates additional coordination and one site visit due to three construction packages being construction under a single construction contract. Additionally, the CONSULTANT anticipates one additional site visit due to the work identified in Task 13.

Task 12.8A – Final Notice of Acceptability of Work

The CONSULTANT anticipates additional administration and coordination to verify that each of the three construction packages has completed contractual requirements.

Task 12.9A – Start-up Assistance

CONSULTANT will provide coordination between the different bid packages, as necessary, prior to startup of new equipment.

Task 12.10A – Record Drawings

CONSULTANT will prepare record drawings for work identified in Task 13 showing those significant changes made during the construction process based on information furnished to CONSULTANT by the Contractor.

Task 12.11A – Visits to Site

CONSULTANT will visit the site an additional four times during the duration of construction as a result of added scope. Each site visit is anticipated to be 8 hours.

TASK 13 ADDITIONAL DESIGN AND PERMITTING SERVICES

CONSULTANT will prepare several design changes to the Project as requested by the COUNTY to accommodate changes to the bidding of the Project in coordination with other projects at EWRP. The design changes will also incorporate elimination of other projects that were expected to be complete prior to commencement the EWRP Phase 6A project.

Task 13.1-Access Road

Additional design services for construction of approximately 460 linear feet of unpaved access road from Curry Ford Road Extension to the proposed new High Service Pump Station. This access road provides access to the proposed high service pump station, control building and surge tanks by COUNTY vehicles, which was previously included in the Utilities Operation Center Project. Canceling the Utilities Operation Center project necessitated the need for this Amendment item. An additional gopher tortoise survey may be required for the construction of this access road.

Task 13.2- Stormwater

Additional design services for minor stormwater modify to account for the elimination of the Utility Operation Center (UOC) project. This change includes design of stormwater swells along the north side of the project area to convey stormwater to the stormwater system .

Additionally, the change will include modification of the stormwater design to include runoff from the access road to the high service pump station.

This task includes modification of the stormwater system to address changes associated with the change to the Curry Ford Road Extension project.

An additional gopher tortoise survey may be required for the construction of this stormwater work.

Task 13.3-Electrical

CONSULTANT will prepare revisions to the Issued for Bid drawings and specifications. A total of 20 Electrical and I&C drawings will be revised and reissued. CONSULTANT will repackage the drawings and

specifications and add Owner Direct Purchase (ODP) requirements for the long lead 3000KVA transformers.

Task 13.4 – Project Documents

The CONSULTANT will provide the following additional services:

- Project document modification related to the combined Project.
- Provide additional coordination with the other engineer design firm on the three design packages.

COUNTY’S RESPONSIBILITIES

1. Assist CONSULTANT in coordinating between the three construction packages.
2. Inform CONSULTANT of any changes associated with one of the three construction packages.
3. Provide CONSULTANT with the geotechnical reports from the UOC project and the Curry Ford Road Extension project.
4. Assist CONSULTANT in completing and applying for permits required for additional work. It is anticipated that the COUNTY with the CONSULTANT may need to attend pre-application and coordination meetings with regulatory agencies. Provide CONSULTANT with information regarding existing gopher tortoise relocation site allocations.

ASSUMPTIONS AND EXCLUSIONS

1. It is assumed no wetland impacts or permitting is required for this Project.
2. There are no documented occurrences of state or federally threatened, endangered, or rare species within the proposed new work areas due to the changes associated with this Amendment for this Project. With the exception of known gopher tortoise burrows within the Project area Fees have been included to conduct field surveys to verify that gopher tortoise burrow locations in the work area prior to start of work.
3. The Contractor is responsible for the final sequence of work to meet the COUNTY’s completion milestones.
4. CONSULTANT will not provide RPR services.
5. No additional survey services are required.
6. No additional geotechnical services are required.
7. With the exception of a gopher tortoise survey, no additional environmental surveys, investigations or reports are required.
8. Contractor shall submit final as-built electronic (digital terrain model format) survey for record drawings.
9. Any time extension to the Contractors final completion date may require an Amendment to this Agreement for a time extension and additional compensation.

PERIOD OF SERVICE

The CONSULTANT estimates that the work can be completed within 24 months per the following milestones depending on COUNTY-supplied data submittals. It is anticipated that the work will take 24 months to complete, starting within two weeks of receipt of a formal notice to proceed (NTP). The estimated schedule is listed below. An overall estimated project duration is provided as **Table 1** below.

Table 1 Estimated Project Duration

Task	Estimated Duration
Task 12A – Construction Phase Engineering Services	24 months from Contractor’s NTP
Task 13 – Additional Design and Permitting Services	24 months from Contractor’s NTP

Notes:

1. The tasks in this authorization are anticipated to be completed concurrent with the current Task 12A and Task 13. Therefore the total contract time will not change via this authorization.
2. The Contractor’s construction period is assumed to be 24 calendar months from NTP to Substantial Completion and followed by 2 months for Final Acceptance and Completion.

PAYMENT AND COMPENSATION

The CONSULTANT shall be compensated for services performed for Task 12A under this Amendment on a not-to-exceed basis in the amount of \$186,470.04. The CONSULTANT shall be compensated for services performed for Tasks 13 under this Amendment No. 3 on a lump sum basis in the amount of \$184,407.72. The total not-to-exceed amount of this Amendment is **\$370,877.76**. The anticipated fee breakdown per task is shown in **Table 2** below. The new grand total not-to-exceed amount of this Agreement is \$3,518,270.65. CONSULTANT will submit monthly invoices based on the percentage of work complete for the lump sum portion (Task 13) and based on the hours incurred and the billing rates in the Agreement plus direct costs and subconsultants for the not-to-exceed portion (Task 12A) in accordance with the provisions of the Compensation Schedule provided in **Exhibit A**.

Table 2 Estimated Fee by Task

Task and Description	Value
Task 12A – Construction Engineering Services (Not-to-Exceed)	\$186,470.04
Task 13 – Additional Design and Permitting Services (Lump Sum)	\$184,407.72
Total Not to Exceed Task 12A & 13	\$370,877.76

EXHIBIT "B" - PROPOSAL
 ORANGE COUNTY PUBLIC WORKS DEPARTMENT
 ACTIVITY AND FEE SUMMARY
 CONSULTANT: CDM SMITH

Project Name: EASTERN WATER RECLAMATION FACILITY PHASE 6A PLANT RECLAIMED WATER SYSTEM EXPANSION PROJECT

Consultant Hourly Breakdown Table

Activity		Executive Manager / Senior Technical Expert		Project Technical Lead		Professional V		Professional IV		Professional III		Professional II		Professional I		CADD/GIS Technician II		Administrative Assistant II		Unit Man-Hours by Activity	Unit Salary Cost by Activity	Average Hourly Rate per Unit
WBS Code	Name	Hours	Rate	Hours	Rate	Hours	Rate	Hours	Rate	Hours	Rate	Hours	Rate	Hours	Rate	Hours	Rate	Hours	Rate			
Task12A	Construction Services	54	\$252.66	129	\$221.71	129	\$205.92	103	\$190.55	0	\$158.14	241	\$124.32	0	\$91.37	48	\$134.16	38	\$95.56	742	\$ 128,466.64	\$ 173.14
Task13	Design Services	72	\$252.66	52	\$221.71	88	\$205.92	120	\$190.55	0	\$158.14	68	\$124.32	0	\$91.37	120	\$134.16	0	\$95.56	520	\$ 95,260.36	\$ 183.19
		126	\$31,835.16	129	\$28,600.59	129	\$26,563.68	103	\$19,626.65	0	\$0.00	309	\$38,414.88	0	\$0.00	168	\$22,538.88	38	\$3,631.28	1262	\$ 223,727.00	\$ 177.28

Consultant ODC Breakdown Table

Activity		Unit Salary Cost	ODC												Lump Sum Amount (PRIME)
			Milage(\$0.445)		B&W Copies (\$0.05)		Color Copies (\$1)		Color Map (\$15)		Hotel (\$139)		Delivery (\$10)		
			Miles	Cost	Units	Cost	Units	Cost	Units	Cost	Unit	Cost	Unit	Cost	
Task12A	Construction Services	\$128,466.64	1728.00	\$ 768.96	350	\$ 17.50	100	\$ 100.00		\$ -			6	\$ 60.00	\$129,413.10
Task13	Design Services	\$95,260.36		\$ -	200	\$ 10.00	50	\$ 50.00	8	\$ 120.00			2	\$ 20.00	\$95,460.36
TOTAL		\$223,727.00	\$768.96	\$27.50	\$150.00	\$120.00	\$0.00	\$80.00	\$224,873.46						

Consultant Summary Table (previous task)

Activity		Lump Sum Amount (PRIME)	EDA	ALLIANCE	Blue Marlin	AECOM	PEC	CPW	RDC	Bowman and Blair	Lump Sum Amount (TOTAL)
	Original Contract	\$282,733.05	\$59,024.86	\$2,265.60	\$25,443.76	\$41,363.60	\$75,155.10	\$0.00	\$0.00	\$0.00	\$485,985.97
	Previous Amendments	\$1,503,901.48	\$448,731.38	\$35,618.30	\$0.00	\$535,467.00	\$0.00	\$105,496.20	\$20,320.00	\$11,872.56	\$2,661,406.92
	SubTotal	\$1,786,634.53	\$507,756.24	\$37,883.90	\$25,443.76	\$576,830.60	\$75,155.10	\$105,496.20	\$20,320.00	\$11,872.56	\$3,147,392.89

Consultant Summary Table

Activity		Lump Sum Amount (PRIME)	EDA	ALLIANCE	Blue Marlin	AECOM	PEC	CPW	RDC	Bowman and Blair	Lump Sum Amount (TOTAL)
Task12A	Construction Services	\$129,413.10	\$40,596.54	\$0.00	\$0.00	\$0.00	\$0.00	\$16,460.40	\$0.00	\$0.00	\$186,470.04
Task13	Design Services	\$95,460.36	\$74,702.64	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$14,244.72	\$184,407.72
	SubTotal	\$224,873.46	\$115,299.18	\$0.00	\$0.00	\$0.00	\$0.00	\$16,460.40	\$0.00	\$14,244.72	\$370,877.76
	Total	\$2,011,507.99	\$623,055.42	\$37,883.90	\$25,443.76	\$576,830.60	\$75,155.10	\$121,956.60	\$20,320.00	\$26,117.28	\$3,518,270.65
Percentage of Total			18%	1%	1%	16%	2%	3%	1%	1%	43%
MWBE Percent of Total			18%	1%	1%	1%	2%	3%	1%	1%	26%

FEE SUMMARY SHEET - ADDITIONAL SERVICES
Bowman and Blair Ecology and Design, Inc.
5080 Parkridge Ct., Oviedo, FL 32765

**Orange County Utilities Department Eastern Water Reclamation Facility
(EWRF) Phase 6 A Plant**

Reclaimed Water System Expansion project Orange County Project Y19-818-TA

Bowman and Blair File Name: 220021-Fee for Gopher Tortoise tasks Revised 4.12.24 to cover additional survey area not included in original scope

	PROJECT			PROJECT			FIELD			GIS/			TOTALS	
	MANAGER (SCIENTIST)			SCIENTIST			ASSISTANT			CADD			Hrs	Cost
	Hrs	Rate	Cost	Hrs	Rate	Cost	Hrs	Rate	Cost	Hrs	Rate	Cost		
GT Survey and Permitting														
Conduct 100 percent survey approx 25 acres	24	82.28	1974.72	0	82.28	0.00	0	65.98	0.00	24	65.98	1583.52	48.0	\$3,558.24
Prepare Application package for FWC online permitting	2	82.28	164.56	0	82.28	0.00	0	65.98	0.00	2	65.98	131.96	4.0	\$296.52
Coordinate with potential recipient sites to locate space for tortoise relocation	2	82.28	164.56	0	82.28	0.00	0	65.98	0.00	0	65.98	0.00	2.0	\$164.56
Coordinate with Project Engineer or County Project Manager to obtain a reservation letter with the recipient site (must be obtained to complete FWC permit application; some sites require a deposit	0	82.28	0.00	2	82.28	164.56	2	65.98	131.96	0	65.98	0.00	4.0	\$296.52
Coordinate with backhoe operator to schedule dig	0	82.28	0.00	2	82.28	164.56	2	65.98	131.96	0	65.98	0.00	4.0	\$296.52
Supervise backhoe operator, assist with excavation	0	82.28	0.00	16	82.28	1316.48	16	65.98	1055.68	0	65.98	0.00	32.0	\$2,372.16
Transfer custody of tortoises to recipient site rep.	0	82.28	0.00	4	82.28	329.12		65.98	0.00	0	65.98	0.00	4.0	\$329.12
Submit After Action Report to FWC	0	82.28	0.00	4	82.28	329.12		65.98	0.00	2	65.98	131.96	6.0	\$461.08
	28	82.28	2303.84	28	82.28	2303.84	20	65.98	1319.60	28	65.98	1847.44	104.0	\$7,774.72

Reimbursables	
Reimbursables	
Daily cost of Backhoe operator 2 days at \$1400/day	\$2,800
FWC Mitigation Contribution (permit application fee*) with an initial 5 captured tortoises included;	\$230
Permit that includes 10 more tortoises at \$344 each*	\$3,440
Reimbursable totals	\$6,470

Total Labor Cost	\$7,774.72
Reimbursable Cost	\$6,470
Total Project Cost	\$14,244.72

*FWC Mitigation contribution shown with a 3% increase from 2021 schedule

Note: FWC permit applications for tortoises relocated to short-term and unprotected sites will not be covered by Bowman and Blair as a reimbursable cost.



April 4, 2024

David Prah, P.E.
CDM Smith
5965 Cattlemen Lane
Sarasota, FL 34232

Via Email: PrahDJ@cdmsmith.com

Re: Additional Construction Administration Services
Orange County Utilities Y19-818-TA
**Eastern WRF Phase 6A - Plant Reclaimed Water System Expansion
Amendment 1 to Existing Sub-agreement – Pond 1 and South Pond**

Dear David:

Please find attached our proposal dated April 4, 2024, to amend our existing sub-agreement to provide additional construction administration services to assist Orange County Utilities during construction of the Eastern Water Reclamation Facility Phase 6A Plant Reclaimed Water System Expansion project for Pond 1 and the South Pond. These additional services will be provided as indicated in the proposal for a not-to-exceed amount of \$16,460.40.

We look forward to working with CDM Smith and providing services to Orange County Utilities. Please call me at (321) 436-0822 or e-mail me at cwatts@cpwconstruction.com at your convenience should you require additional information.

Very truly yours,

A handwritten signature in black ink, appearing to read 'C.P. Watts', is written in a cursive style.

Charlyn P. Watts
President

Enclosure



SCOPE OF SERVICES and PROJECT BUDGET

LABOR ESTIMATE - Construction Administration Services

**Orange County Utilities - Contract Y19-818-TA
 EWRP Phase 6A - Plant Reclaimed Water System Expansion
 Amendment 1 to Existing Sub-Agreement - Pond 1 and South Pond**

Task No.	Task Description	Project Manager		Total
		\$149.64	/Hr.	
		Hrs.	\$	
Additional Construction Administration (CA) Services				
Subtask 12.3	Receive, log, review, evaluate, distribute and/or issue RFIs, resolve actual field conflicts encountered and provide consultation and advice during the construction process.	10	\$1,496.40	\$1,496.40
Subtask 12.6	As approved by the Chief Utilities Inspector or their delegate, conduct additional visits to the site at intervals appropriate to the various stages of construction in order to observe the progress and content of the work and site conditions maintained by the contractor, and to assess whether the work is preceding in general accordance with the Contract Documents. Identified construction concerns will be discussed with the County and CDM Smith representatives. Provide a written observation report. <i>Observation of work at the project site shall not make CPW Construction, Inc., responsible for the work performed by another party; the means, methods, techniques, sequences, or procedures selected by another party; nor the safety precautions or programs of another party.</i>	100	\$14,964.00	\$14,964.00
ADDITIONAL NOT-TO-EXCEED AMOUNT		110		\$16,460.40

Schedule - If additional services are required from CPW Construction, Inc., beyond those described herein, additional funding will be requested and authorized via contract amendment.

Compensation - CPW Construction, Inc. will be compensated for the services described above at the billing rate shown. Work performed under Task 12 will be paid on a Time & Materials basis. Payment for services rendered shall be in accordance with approved monthly invoices. CPW Construction, Inc. shall receive payment from CDM Smith in accordance with Orange County's "pay when paid" provisions.



Electrical Design Associates

February 13, 2024

Mr. Greg Isaacs, PE, PMP
CDM Smith
101 Southhall Lane, Suite 200
Maitland, Florida 32751

Re: Eastern Water Reclamation Facility (EWRf) Phase 6A Plant Reclaimed Water System Expansion Project – Final Design and Construction Services Amendment 1
Orange County, FL
Contract Y19-818-TA

Dear Mr. Isaacs:

We are pleased to submit our proposal for engineering services for the above project. The following serves to provide an overview of the engineering services Electrical Design Associates (EDA) intends to furnish on the above referenced project to CDM Smith (CONSULTANT) and provides the agreed upon sum. Your signature on this agreement will serve as your letter of intent and official notice to proceed with the referenced work.

It is our understanding that the Phase 6A expansion will provide additional reclaimed water storage and pumping facilities improvements at the existing PAR Phase 4B facility. These improvements, outlined in the Preliminary Design Report, are necessary to address the needs of future development and existing customers within the County's Reclaimed Water East Service Area (ESA).

As a result of combining this PROJECT, Y19-818-TA, during the bidding phase with two projects at the EWRf site designed by Black and Veatch, and the need by the COUNTY to expedite the bidding process there are additional costs that were or are anticipated to be incurred on the project.

This amendment covers additional funding to cover the following:

1. **TASK 2A** After the 100% submittal, significant design changes to Bid Issue drawings and specifications. A total of twenty (20) Electrical and I&C drawings need to be significantly changed. Re-packaging drawings and specifications.
2. Addition of ODP (Owner Direct Purchase) for the long lead 3000KVA transformers.
 - a. **TASK 2A** Bid package preparation and cost estimating
 - b. **TASK 2A** Coordination
 - c. **TASK 5A** Bidding Addendum
 - d. **TASK 5A** Bidding Evaluation and Recommendation
3. **TASK 11** Increased in bid efforts services to handle 3 packages at one time.
4. **TASK 12** Increased complexity of construction phase services due to added intermediate milestones and coordination between packages.
5. **TASK 3A** Permit application package needs to be revised due to the changes described in number 1 above.
6. **TASK 12** Increased construction phase services are generally outlined below:

Project Management: MWBE reporting/compliance.

Meetings: Additional meetings, both onsite and virtual, and includes meeting attendance and reviewing and providing input on meeting minutes.

Site Visits: Additional site visits to observe the progress of the work, resolve questions or provide clarification.

General Project Coordination: The extended schedule requires additional project coordination needs with the contractor and Orange County beyond that contemplated in the original scope.

Our scope of services shall include the electrical and I&C engineering services associated with the proposed project. Services not specifically identified are not included. All mechanical engineering, including but not limited to HVAC, Plumbing, Fuel, Process, etc., to be completed by others. Attached please find a breakdown of our projected man-hours for this project. Tasks 1 thru 5 and Tasks 7 thru 11 performed on a lump sum basis and will be billed at monthly intervals. Task 6 and 12 will be billed hourly with a not to exceed sum.

Task No. 2A – Final Design	\$ 54,992.92
Task No. 3A – Permitting	\$ 4,475.96
Task No. 5A – Bidding Assistance	\$ 9,500.24
Task No. 11 – Bidding Assistance	\$ 5,733.52
Task No. 12 – Construction Administration	\$ 40,596.54
Total:	\$ 115,299.18

Very truly yours,



William C. Nelson, P.E.

ACCEPTED _____ DATE _____



EWRF Phase 6A - Reclaimed Water System Expansion Project - Amendment 1
Orange County, Florida
OCU PN: Y19-818-TA

Date: 2/13/2024

Estimate of Work Effort & Fee

	Principal		Senior Elect Engineer		Engineer		Senior Associate		Cadd Tech		Clerical/Admin		Totals	
	Hourly Rate	\$193.70	Hourly Rate	\$166.88	Hourly Rate	\$134.10	Hourly Rate	\$119.20	Hourly Rate	\$83.44	Hourly Rate	\$53.64		
Task No. 2A - Final Design														
Documents - 100%	38	\$ 7,360.60	64	\$ 10,680.32	72	\$ 9,655.20	32	\$ 3,814.40	118	\$ 9,845.92	6	\$ 321.84	330	\$ 41,678.28
Transformer Bid Package	8	\$ 1,549.60	16	\$ 2,670.08	16	\$ 2,145.60	0	\$ -	0	\$ -	4	\$ 214.56	44	\$ 6,579.84
Transformer Bid Coordination	8	\$ 1,549.60	24	\$ 4,005.12	8	\$ 1,072.80	0	\$ -	0	\$ -	2	\$ 107.28	42	\$ 6,734.80
Subtotal:	54	\$ 10,459.80	104	\$ 17,355.52	96	\$ 12,873.60	32	\$ 3,814.40	118	\$ 9,845.92	12	\$ 643.68	416	\$ 54,992.92
Task No. 3A - Permitting Services														
Prepare Documents	4	\$ 774.80	6	\$ 1,001.28	2	\$ 268.20	0	\$ -	12	\$ 1,001.28	1	\$ 53.64	25	\$ 3,099.20
Address Comments	2	\$ 387.40	4	\$ 667.52	2	\$ 268.20	0	\$ -	0	\$ -	1	\$ 53.64	9	\$ 1,376.76
Subtotal:	6	\$ 1,162.20	10	\$ 1,668.80	4	\$ 536.40	0	\$ -	12	\$ 1,001.28	2	\$ 107.28	34	\$ 4,475.96
Task No. 5A - Bidding Assistance														
Prepare Addenda	4	\$ 774.80	8	\$ 1,335.04	4	\$ 536.40	0	\$ -	4	\$ 333.76	2	\$ 107.28	22	\$ 3,087.28
Address Questions/Coordination	4	\$ 774.80	4	\$ 667.52	0	\$ -	0	\$ -	0	\$ -	0	\$ -	8	\$ 1,442.32
Bid Evaluation and Recommendation	8	\$ 1,549.60	16	\$ 2,670.08	4	\$ 536.40	0	\$ -	0	\$ -	4	\$ 214.56	32	\$ 4,970.64
Subtotal:	16	\$ 3,099.20	28	\$ 4,672.64	8	\$ 1,072.80	0	\$ -	4	\$ 333.76	6	\$ 321.84	62	\$ 9,500.24
Task No. 11 - Bidding Assistance														
Prepare Addenda	4	\$ 774.80	8	\$ 1,335.04	8	\$ 1,072.80	0	\$ -	4	\$ 333.76	2	\$ 107.28	26	\$ 3,623.68
Address Questions/Coordination	4	\$ 774.80	8	\$ 1,335.04	0	\$ -	0	\$ -	0	\$ -	0	\$ -	12	\$ 2,109.84
Subtotal:	8	\$ 1,549.60	16	\$ 2,670.08	8	\$ 1,072.80	0	\$ -	4	\$ 333.76	2	\$ 107.28	38	\$ 5,733.52
Task No. 12 - Construction Administration														
Conformed Documents	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -
Coordination	24	\$ 4,648.80	48	\$ 8,010.24	16	\$ 2,145.60	0	\$ -	0	\$ -	6	\$ 321.84	94	\$ 15,126.48
Shop Drawings	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -
RFLs	8	\$ 1,549.60	14	\$ 2,336.32	3	\$ 402.30	0	\$ -	0	\$ -	4	\$ 214.56	29	\$ 4,502.78
Change Orders and WCDs	6	\$ 1,162.20	12	\$ 2,002.56	0	\$ -	0	\$ -	0	\$ -	3	\$ 160.92	21	\$ 3,325.68
Progress Meetings	8	\$ 1,549.60	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	8	\$ 1,549.60
Site Visits & Start-up	16	\$ 3,099.20	48	\$ 8,010.24	0	\$ -	40	\$ 4,768.00	0	\$ -	4	\$ 214.56	108	\$ 16,092.00
Substantial Walk-Thru	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -
Final Walk-Thru	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -
Record Drawings	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -
Subtotal:	62	\$ 12,009.40	122	\$ 20,359.36	19	\$ 2,547.90	40	\$ 4,768.00	0	\$ -	17	\$ 911.88	260	\$ 40,596.54
Task 1 thru Task 6 Total:	146	\$ 28,280.20	280	\$ 46,726.40	135	\$ 18,103.50	72	\$ 8,582.40	138	\$ 11,514.72	39	\$ 2,091.96	810	\$ 115,299.18

Es Interoffice Memorandum

DATE: June 17, 2024

TO: Mayor Jerry L. Demings and County Commissioners

FROM: Carrie Mathes, CFCM, NIGP-CPP, CPPO, C.P.M., Manager II, Procurement Division

CONTACT: Lindy A. Wolfe, P.E. LEED AP, Manager II, Utilities Engineering Division

PHONE: 407-254-9918

SUBJECT: Amendment 4, Contract Y19-818, EWRF Phase 6A

ACTION REQUESTED:

Approval of Amendment No. 4, Contract Y19-818, EWRF Phase 6A, with CDM Smith, in the total amount of \$370,877.76, for a revised contract amount of \$3,518,270.65.

PROCUREMENT:

CDM Smith, has submitted a price proposal for additional services under the terms of Contract Y19-818. This authorization includes additional services related to final design, permitting, and construction administration.

Curtis Stanton Energy Center (CSEC) is a significant industrial user of reclaimed water effluent from EWRF. CSEC is currently scheduled to decommission a coal fired portion of CSEC which will reduce the reclaimed water demands of the facility by 4 MGD by December 2025. OCU identified three (3) projects which were critical for the operation of the plant within the requirements of the current operating permit. The three projects were collectively bid as "EWRF Phase 6A" and are described as the project packages listed below:

Package A: EWRF 6A Storage and Repump

Package B: EWRF Internal Recycle (IR) Pump Replacement

Package C: EWRF Motor Control Center (MCC) Replacement

This specific task authorization request is associated with project Package A. The three projects were originally designed separately, with the assumption that Packages B and C would complete construction first, and Package A would complete construction later. Initially, the three packages were scheduled to be bid separately on different construction timelines. However, news of the CSEC decommissioning necessitated that the three packages be bid together, with Packages C and A to be operational by December 2025, and Package B soon after that date. The bidding approach and construction milestones

were adjusted to expedite the completion of assets critical for storing and pumping excess reclaimed water in the Public Access Reuse system.

Further, on June 4, 2024 Change Order No. 1 was approved amending the associated construction contract Y24-724 EWRF 6A to include construction of the Curry Ford Access Road and stormwater ponds. These assets were identified as critical for the completion of EWRF 6A and were previously unsuccessfully bid as part of Y24-712 on 11/22/23.

This authorization will provide additional engineering services necessary to carry out the project successfully throughout construction. The level of effort required from the CDM Smith team will exceed that of the originally anticipated effort due to several impacts as described below.

1. Significant design changes, additional permitting requirements, and additional clarifications required due to the expedited schedule, the combination of three separate design sets of specifications for the different packages, and addition of the access road and stormwater.
2. Increased complexity of construction phase services due to added intermediate milestones, as required to meet the December 2025 deadline.
3. Increased construction phase services. This increase in construction coordination meetings is required to accommodate the combination of the three packages, ensuring that critical assets are operational by December 2025. Further, since the time of initial scope development, the lead times of several major project assets, specifically electrical equipment, have significantly increased due to market availability, further adding complexity to the construction schedule. This authorization accounts for the decision to issue Owner Direct Purchase of transformers to reduce the long lead impact on the overall construction schedule.

These services will be performed in accordance with the Lump Sum and Not-to Exceed (NTE) method. This project is located in District 4.

FUNDING:

Funding is available in account number 4420-038-1538-0025-6310.

APPROVALS:

The Utilities Engineering Division concurs with this recommendation.

REMARKS:

The Board approved the selection of CDM Smith on August 6, 2020 and authorized negotiation and execution of a contract by the Procurement Division provided that the contract does not exceed the budget amount of \$3,000,000 for all phases of negotiation. This change order exceeds this amount and therefore requires BCC approval.

Below is a history of the task authorizations for EWRF Phase 6A.

Phase 1: Contract Executed with Preliminary Design services for EWRF Phase 6A

Effective Date: 11/09/2020 Amount: \$485,985.97

Amendment No. 1: Add Sub Consultant

Effective Date: 6/24/2021 Amount: \$0

Amendment 1 revised the contract to include an additional sub consultant to perform preliminary design services.

Phase 2, Amendment No. 2: Final Design and Construction Administration Services

Effective Date: 8/17/2022 Amount: \$2,661,406.92

Amendment 2 included design, permitting, bidding, and construction administration services for EWRF Phase 6A.

Amendment 3: Encumber funds with a zero-dollar increase

Amendment 4: Additional Design and Construction Administration Services for EWRF Phase 6A

Board Approval Date: TBD Amount: \$370,877.76

Final Design and Construction administrative services required to complete EWRF 6A (Package A).