



Agenda Report

2725 Judge Fran Jamieson
Way
Viera, FL 32940

Consent

F.5.

12/17/2019

Subject:

Execution of Change Order No. 11 for the South Central Regional Wastewater Treatment Facility (WWTF) Expansion Project

Fiscal Impact:

\$221,974.41 (funds available in SRF loan)

Dept/Office:

Utility Services

Requested Action:

It is requested that the Board approve, and authorize the Chair to execute, Change Order No. 11 to Adams Robinson for the South Central Regional WWTF expansion project along with any associated budget changes.

Summary Explanation and Background:

During the course of the work for the South Central Regional WWTF Expansion project, a need was identified to address several different items for this project. The Engineer reviewed each Request for Proposal and negotiated the cost for these items with the Contractor. The price to make the needed changes for each RFP was recommended by the Engineer of Record and approved by Staff. Below you will find the list of items addressed as well as their cost impact to the project. In addition, the remaining Allowance for the project has been deducted from the final Contract Amount.

Item 1: RFP #25 Existing Pump Station Credit	\$ (89.92)
Item 2: RFP #26 Existing Sludge Holding Tank Sand Removal	\$ 64,489.10
Item 3: RFP #27 North Filter Sand Removal	\$ 26,576.20
Item 4: RFP #28 Sludge Holding Tank Modification	\$ 24,557.76
Item 5: RFP #30 Maintenance Building HVAC Rebalance	\$ 2,511.50
Item 6: RFP #32 Electrical Revisions	\$105,819.63
Item 7: Lab Faucet	\$ 544.83
Item 8: Remaining Allowance Deduct	\$ (2,434.69)

These Items address this increase in the Contract Price. The attached Change Order No. 11 includes a more detailed explanation for the increased cost to the project of \$221,974.41.

A no cost/time extension change order is in the process of being submitted for closeout items.

Clerk to the Board Instructions:

After execution, three originals, retain one copy for Clerk and call Rose Lyons at 321-633-2091 for pick-up.

170

P.S. 1074
12-17-19

Subject:

Execution of Change Order No. 11 for the South Central Regional Wastewater Treatment Facility (WWTF) Expansion Project

Fiscal Impact:

\$221,974.41 (funds available in SRF loan)

Dept/Office:

Utility Services

Requested Action:

It is requested that the Board approve, and authorize the Chair to execute, Change Order No. 11 to Adams Robinson for the South Central Regional WWTF expansion project along with any associated budget changes.

Summary Explanation and Background:

During the course of the work for the South Central Regional WWTF Expansion project, a need was identified to address several different items for this project. The Engineer reviewed each Request for Proposal and negotiated the cost for these items with the Contractor. The price to make the needed changes for each RFP was recommended by the Engineer of Record and approved by Staff. Below you will find the list of items addressed as well as their cost impact to the project. In addition, the remaining Allowance for the project has been deducted from the final Contract Amount.

Item 1: RFP #25 Existing Pump Station Credit	\$ (89.92)
Item 2: RFP #26 Existing Sludge Holding Tank Sand Removal	\$ 64,489.10
Item 3: RFP #27 North Filter Sand Removal	\$ 26,576.20
Item 4: RFP #28 Sludge Holding Tank Modification	\$ 24,557.76
Item 5: RFP #30 Maintenance Building HVAC Rebalance	\$ 2,511.50
Item 6: RFP #32 Electrical Revisions	\$105,819.63
Item 7: Lab Faucet	\$ 544.83
Item 8: Remaining Allowance Deduct	\$ (2,434.69)

These Items address this increase in the Contract Price. The attached Change Order No. 11 includes a more detailed explanation for the increased cost to the project of \$221,974.41.

A no cost/time extension change order is in the process of being submitted for closeout items.

Clerk to the Board Instructions:

After execution, three originals, retain one copy for Clerk and call Rose Lyons at 321-633-2091 for pick-up.



Tammy Rowe, Clerk to the Board, 400 South Street • P.O. Box 999, Titusville, Florida 32781-0999

Telephone: (321) 637-2001
Fax: (321) 264-6972
Tammy.Rowe@brevardclerk.us

December 18, 2019

M E M O R A N D U M

TO: Edward Fontanin, Utility Services Director

RE: Item F.5, Execution of Change Order No. 11 for the South Central Regional Wastewater Treatment Facility (WWTF) Expansion Project

The Board of County Commissioners, in regular session on December 17, 2019, authorized the Chair to execute Change Order No. 11 to Adams Robinson for the South Central Regional WWTF expansion project; and approved any necessary associated budget changes. Enclosed are two fully-executed Change Orders.

Your continued cooperation is greatly appreciated.

Sincerely yours,

BOARD OF COUNTY COMMISSIONERS
SCOTT ELLIS, CLERK

Tammy Rowe

Tammy Rowe, Deputy Clerk

/cmw

Encls. (2)

cc: Finance
Budget

CHANGE ORDER NO. 11

County Project No.: RS-EX-28

Engineer Project No.: BC17

PROJECT TITLE South Central Regional WWTF Expansion

To: Adams Robinson Enterprises, Inc.
2735 Needmore Road
Dayton, Ohio 45414

You are hereby authorized to make the following additions and/or deductions to your contract amount:

	Previous Contract Amount	Increase	Decrease	Net Change	Revised Contract Amount
TOTAL	\$26,239,528.42	\$224,499.02	\$2,524.61	\$221,974.41	\$26,461,502.83

You are hereby authorized to change your Contract by making the following extension to the Contract Time:

Previous Contract Period	Previous Contract Deadline	Contract Time Extension	Revised Contract Period	Revised Contract Deadline
1,187 Days	November 22, 2019	0 Days	N/A	November 22, 2019

DESCRIPTION OF CHANGE:

ADD

DEDUCT

Item 1: RFP #25 Existing Pump Station Credit		\$ 89.92
Item 2: RFP #26 Existing SHT Sand Removal	\$ 64,489.10	
Item 3: RFP #27 North Filter Sand Removal	\$ 26,576.20	
Item 4: RFP #28 SHT Modifications	\$ 24,557.76	
Item 5: RFP #30 Maintenance Building HVAC Rebalance	\$ 2,511.50	
Item 6: RFP #32 Electrical Revisions	\$105,819.63	
Item 7: Lab Faucet	\$ 544.83	
Item 8: Remaining Allowance Deduct		\$ 2,434.69
Totals:	<u>\$224,499.02</u>	<u>\$ 2,524.61</u>

Recommended by Engineer
Mead & Hunt, Inc.

By: 
Kevin A. Lee, P.E.

Title: Project Manager

Date: 11/14/19

Accepted by Contractor
Adams Robinson Enterprises, Inc.

By: 
DANIEL McMANUS

Title: FLORIDA OPERATIONS MANAGER

Date: 11/14/19

Approved by Brevard County
Utility Services Department

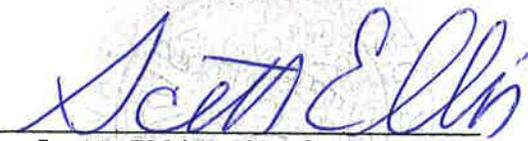
Brevard County Board of County Commissioners

By: 
Bryan Lober

Title: Chair

Date: December 17, 2019

ATTEST:


Scott Ellis, Clerk

As approved by the Board on 12-10-19

CHANGE ORDER NO. 11

County Project No.: RS-EX-28

Engineer Project No.: BC17

PROJECT TITLE South Central Regional WWTF Expansion

ITEM NO.: 1

REQUEST AND JUSTIFICATION FOR CHANGE

Necessity for change:

The existing reuse high service pump station was shown to be removed once it was placed out of service. During construction the County requested that the existing structure remain in place and the Contractor remove the pumps, piping, and electrical items only. For the structure to remain there was some piping work added to the contract such as the 20" tee and sleeve. The Engineer defined the revised scope and prepared a Request for Proposal to the Contractor, Number 25. The Contractor provided a credit proposal, RFP #025 for the amount of \$(89.92). The credit provided by the Contractor was recommended by the Engineer of Record and approved by Staff.

Will proposed change alter size of project? Yes, it will decrease the work scope and decrease the Contract Price by \$(89.92).

Effect on operation and maintenance cost of this project: The decrease in Contract Price will not affect the operation and maintenance cost of this project.

CHANGE ORDER NO. 11

County Project No.: RS-EX-28

Engineer Project No.: BC17

PROJECT TITLE South Central Regional WWTF Expansion

ITEM NO.: 2

REQUEST AND JUSTIFICATION FOR CHANGE

Necessity for change:

The existing aerated sludge holding tank (SHT) had a significant amount of sand and debris in the bottom. After the new SHT was placed into service the demo work for the existing SHT began. The amount of sand was significant and needed to be removed before the rehab of this tank could be completed. The Engineer defined the scope of sand removal by the Contractor and prepared a Request for Proposal to the Contract, Number 26. The Contractor provided a cost proposal, RFP #026 for the amount of \$64,489.10. The cost provided by the Contractor was recommended by the Engineer of Record and approved by Staff.

Will proposed change alter size of project? Yes, it will increase the work scope and increase the Contract Price by \$64,489.10.

Effect on operation and maintenance cost of this project: The increase in Contract Price will not affect the operation and maintenance cost of this project.

CHANGE ORDER NO. 11

County Project No.: RS-EX-28

Engineer Project No.: BC17

PROJECT TITLE South Central Regional WWTF Expansion

ITEM NO.: 3

REQUEST AND JUSTIFICATION FOR CHANGE

Necessity for change:

The contract identified the sand within the north filter basin that was demoed as part of the project scope, could be used for fill on the site. FDEP determined that the filter sand needed to be disposed off site and handled the same as residual from the wastewater process. The Contractor incurred additional work to remove the sand, dewater sand, dispose of the sand in the landfill, and additional costs of fill because this material could not be used on site. The Engineer defined the scope of sand removal by the Contractor and prepared a Request for Proposal to the Contract, Number 27. The Contractor provided a cost proposal, RFP #027 for the amount of \$26,576.20. The cost provided by the Contractor was recommended by the Engineer of Record and approved by Staff.

Will proposed change alter size of project? Yes, it will increase the work scope and increase the Contract Price by \$26,576.20.

Effect on operation and maintenance cost of this project: The increase in Contract Price will not affect the operation and maintenance cost of this project.

CHANGE ORDER NO. 11

County Project No.: RS-EX-28

Engineer Project No.: BC17

PROJECT TITLE South Central Regional WWTF Expansion

ITEM NO.: 4

REQUEST AND JUSTIFICATION FOR CHANGE

Necessity for change:

The contract did not include a level transducer or float switches in the new aerated sludge holding tank (SHT). Wastewater operations indicated that a level transducer and floats were needed for the new SHT to be operated properly. The additional work included providing the instruments, conduit, wiring, integration into the SCADA system, mounting the equipment and programming the control panel to accept these additional signals. The Engineer defined the revised scope and prepared a Request for Proposal to the Contract, Number 28. The Contractor provided a cost proposal, RFP #028 for the amount of \$24,557.76. The cost provided by the Contractor was recommended by the Engineer of Record and approved by Staff.

Will proposed change alter size of project? Yes, it will increase the work scope and increase the Contract Price by \$24,557.76.

Effect on operation and maintenance cost of this project: The increase in Contract Price will not affect the operation and maintenance cost of this project.

CHANGE ORDER NO. 11

County Project No.: RS-EX-28

Engineer Project No.: BC17

PROJECT TITLE South Central Regional WWTF Expansion

ITEM NO.: 5

REQUEST AND JUSTIFICATION FOR CHANGE

Necessity for change:

The HVAC system in the new maintenance building was experiencing condensation around ductwork and registers throughout the office area. The HVAC engineer reviewed the test and balance report provided for the building by the Contractor. Each piece of equipment was performing within the acceptable range; however, it was determined the building had a slight negative pressure. The negative pressure was allowing intrusion from humid air increasing humidity within the building. The additional work was to have the system rebalanced to provide a positive pressure within the building. The Engineer defined the revised scope and prepared a Request for Proposal to the Contract, Number 30. The Contractor provided a cost proposal, RFP #030 for the amount of \$2,511.50. The cost provided by the Contractor was recommended by the Engineer of Record and approved by Staff.

Will proposed change alter size of project? Yes, it will increase the work scope and increase the Contract Price by \$2,511.50.

Effect on operation and maintenance cost of this project: The increase in Contract Price will not affect the operation and maintenance cost of this project.

CHANGE ORDER NO. 11

County Project No.: RS-EX-28

Engineer Project No.: BC17

PROJECT TITLE South Central Regional WWTF Expansion

ITEM NO.: 6

REQUEST AND JUSTIFICATION FOR CHANGE

Necessity for change:

Throughout construction there were several revisions to the electrical subcontractor's work. All of the revisions were included in a single Request for Proposal. The changes are as follows:

1. Addition of control wiring and junction boxes at the clarifiers
2. Fiber optic conduit, cabling and control modifications for communication between paralleling switchgear and automatic transfer switches
3. Repair of existing conduit that was identified to be reused for the reject pond pumps
4. Extend the electrical rack at plant lift station #1
5. Additional fiber optic conduit and cabling required for the SCADA network
6. Relocation of the generators to facilitate final site criteria
7. Install power feeder from MCC-1 to the paralleling switch gear
8. Controls and power for the 3rd access gate near the new maintenance building
9. Electrical installation of the air handler and water heater in storage and operations building; respectively
10. Provide and install level transducers for generator fuel level

All of these items were additional work for the electrical portion of the project. These items were added to the project as Owner requested items or to make for a complete final product. The Engineer defined the revised scope and prepared a Request for Proposal to the Contract, Number 32. The Contractor provided a cost proposal, RFP #032 for the amount of \$105,819.63. The cost provided by the Contractor was recommended by the Engineer of Record and approved by Staff.

Will proposed change alter size of project? Yes, it will increase the work scope and increase the Contract Price by \$105,819.63.

Effect on operation and maintenance cost of this project: The increase in Contract Price will not affect the operation and maintenance cost of this project.

CHANGE ORDER NO. 11

County Project No.: RS-EX-28

Engineer Project No.: BC17

PROJECT TITLE South Central Regional WWTF Expansion

ITEM NO.: 7

REQUEST AND JUSTIFICATION FOR CHANGE

Necessity for change:

The contract did not include a faucet in the lab addition for the water bath equipment. The additional work included providing and installing a faucet above the counter top area near the water bath equipment. The Contractor provided a cost proposal of \$544.83. The cost provided by the Contractor was recommended by the Engineer of Record and approved by Staff.

Will proposed change alter size of project? Yes, it will increase the work scope and increase the Contract Price by \$544.83.

Effect on operation and maintenance cost of this project: The increase in Contract Price will not affect the operation and maintenance cost of this project.

CHANGE ORDER NO. 11

County Project No.: RS-EX-28

Engineer Project No.: BC17

PROJECT TITLE South Central Regional WWTF Expansion

ITEM NO.: 8

REQUEST AND JUSTIFICATION FOR CHANGE

Necessity for change:

This is the final balancing change order for the project; as such, the remaining allowance amount is removed from the contract. The original contract included an allowance for additional work items identified during construction. The remaining balance in the allowance line item is \$2,434.69. This item is to reduce the contract amount by \$(2,434.69) to close the project with \$0 outstanding.

Will proposed change alter size of project? Yes, it will not affect the work scope and decrease the Contract Price by \$(2,434.69).

Effect on operation and maintenance cost of this project: The decrease in Contract Price will not affect the operation and maintenance cost of this project.