400 South Federal Hwy
Hallandale Beach, FL 33009
Revised 042023

City of Hallandale Beach
City Commission Agenda Cover Memo

Meeting Date:	Item Type:		1st Reading	2nd Reading
2/7/2024	☒ **Resolution** ☐ **Ordinance** ☐ **Other**	Ordinance Reading	**N/A**	**N/A**
		Public Hearing	☐	☐
File No.:		Advertising Required	☐	☐
24-003		Quasi-Judicial:	☐	☐

Fiscal Impact ($):	Account Balance ($):	Funding Source:	Project Number:
$104,150	**$3,219,898.53 (Encumbered)** **$676,230 (Unencumbered)**	**3395W-565000** **3399W-565000**	**P2127**

Contract/P.O. Required		RFP/RFQ/Bid Number:	Sponsor Name:	Department:
☒ **Yes**	☐ **No**	**Bid # FY 2021-2022-016 Water Treatment Plant Reverse Osmosis Skid Addition**	**Jeff Odoms, Director**	**Public Works**

Strategic Plan Focus Areas:		
☐ **Finance & Budget**	☐ **Organizational Capacity**	☒ **Infrastructure/Projects**

Implementation Timeline:	
Estimated Start Date: 1/17/2024	Estimated End Date: 3/28/2025

SHORT TITLE:

A RESOLUTION OF THE MAYOR AND CITY COMMISSION OF THE CITY OF HALLANDALE BEACH, FLORIDA, AUTHORIZING A CHANGE ORDER FOR THE FY 2021-2022-016 WATER TREATMENT PLANT REVERSE OSMOSIS SKID ADDITION PROJECT AGREEMENT IN THE AMOUNT OF ONE HUNDRED FOUR THOUSAND, ONE HUNDRED AND FIFTY DOLLARS ($104,150) TO ADD AN OWNER SUPPLIED 24" MODULATING VALVE AND PNEUMATIC ACTUATOR; AND PROVIDING AN EFFECTIVE DATE.

STAFF SUMMARY:

Summary:

This agenda item seeks City Commission approval of changes to the scope of work for Bid FY2021-2022-016 Water Treatment Plant Reverse Osmosis Skid Addition with Cardinal Consultants, Inc., in the amount $104,150.00 for a new not to exceed total of $4,817,229.80.

Background:

The City of Hallandale Beach owns, operates, and maintains the water treatment plant which services approximately 40,000 people within the City's corporate limits. The City of Hallandale Beach has elected to continue utilizing City water for the longest extent possible by incorporating provisions to the existing water treatment plant that can accommodate raw water with higher salinity.

As a precaution to safeguard against future potential intrusion of saltwater into the City's wellfield, the City of Hallandale Beach will install one Reverse Osmosis (RO) skid within the existing membrane treatment facility, capable of treating potential increasing saline raw water. The new RO skid will provide additional flexibility and redundancy in our drinking water operations.

Bid FY 2021-2022-016 Water Treatment Plant Reverse Osmosis Skid Addition was competitively bid on March 15, 2023. The City Commission approved, by Resolution 2023-025 (Exhibit 2), an award contract to Cardinal Contractors, Inc., in the amount of $4,284,618.00, plus a 10% contingency of $428,461.80 totaling a not-to-exceed amount of $4,713,079.80.

Current Situation:

Change Order No.1 - $104,150

City staff requested a proposal to install an owner supplied 24" modulating valve & pneumatic actuator to the project as the need was identified at the onset of construction. The modulating valve will provide a control point to modulate the raw water flow to the water plant and reduce water hammers. This additional work activity was created as a separate approved CIP Project, funded in the amount of $500,000. Fortunately, the City was able to purchase the valve for $40,000 separately and has asked Cardinal Contractors, Inc. to install it as part of the work they are performing for the installation of the Reverse Osmosis Skid as they are at the same location. The estimated cost of this additional work activity totals $104,150 (Exhibit 4), which presents a cost savings of $355,850 to the CIP Project.

The additional work was reviewed and considered by Hazen & Sawyer Engineer, Jennifer McMahon, P.E who is performing as the Construction Engineer Inspector, (CEI) for the project, as well as the City in-house engineering team.

The scope change includes the following:

1. Install owner supplied 24" butterfly valve and pneumatic actuator.
2. Furnish and install HDPE tubing from pneumatic actuator to existing compressor.

3. Furnish and install termination box and 1-1" conduit from RIO 1.1 to termination box.
4. Update shop drawings to reflect new valve terminations.
5. Create control sequence to modulate valve position based on flow using an adjustable setpoint based on number of skids running and existing signal from owner owned flow meter (FIT- 0900) for feedback.
6. Modify SCADA and local HMIs as needed to incorporate all the controls associated with the new valve including alarms and reports.
7. Provide testing, commissioning, and training services.

Breakdown of Project Budget and Costs:

Item	**Amount**
Bid Amount	$4,284,618.00
Contingency -10%	$428,461.80
Current Not-To-Exceed Project Budget	**$4,713,079.80**
Change Order No.1 – Modulating Valve and Pneumatic Actuator Installation	$104,150
New Not-To-Exceed Amount, including original contingency	**$4,817,229.80**

The additional work activity does not impact the anticipated completion date of the project which is March 28, 2025.

Why Action is Necessary:

Pursuant to Code of Ordinances, Chapter 23, Section 23-12 Procedures for purchases in excess of $50,000, item (7) Change Orders, any change in the contract price, scope of work or time for completion of any project following the award of a contract shall be by a written change order, approved by the City Manager and executed with the same formalities as the contract. (7)(a) The City Manager may approve any change orders so long as the total sum of all change orders does not exceed the total amount awarded by the City Commission by more than either ten percent of the contract cost or $50,000, whichever is less. The scope of any project may not be changed without prior approval of the City Commission

Cost Benefit:

The installation of the reverse osmosis (RO) skid within the existing membrane treatment facility, capable of treating potential increasing saline raw water is critical to the success of the city. The new RO skid will provide additional flexibility and redundancy in the City's safe drinking water operations. The additional work activity will enhance the project as the installation of the modulating value was necessary and by adding to this project creates a cost savings of $355,850 to the City.

PROPOSED ACTION:

The City Commission consider the attached Resolution.

ATTACHMENT(S):

Exhibit 1 – Proposed Resolution
Exhibit 2 – Resolution 2023-025
Exhibit 3 – Cardinal Contractors, Inc. Agreement
Exhibit 4 – Change Order No.1 Proposal – Modulating Valve and Pneumatic Actuator Installation

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