



**Date:** May 15, 2023

**To:** Wanda S. Page, City Manager  
**Through:** Bertha T. Johnson, Deputy City Manager  
**From:** Donald F. Greeley, Director, Water Management  
**Subject:** Award of Construction Contract to Carolina Civilworks Inc. for the Parkwood Area Lift Station Consolidation Project

**Executive Summary**

The existing Parkwood lift station and force main are nearing their maximum capacity and life span. An engineering study recommended a new lift station and force main while consolidating two other lift stations. The proposed project will replace the existing 0.75 million gallons per day (MGD) lift station with a new 1.57 MGD station at the existing Parkwood lift station site. See Attachment 1 for the limits of the project area.

The existing 8-inch force main will be replaced by 3,200 feet of new 10-inch force main. Also, roughly 2,200 feet of 10-inch gravity mains will be replaced with 15-inch mains, and approximately 5,000 feet of new gravity mains will be installed to carry flow from, and abandon, the Elmset and Newhall lift stations.

On February 24, 2023, the Department of Water Management (DWM) received bids for the Parkwood Area Lift Station Consolidation (PALSCO) Project. The bid received from Carolina Civilworks Inc. to perform this work is the lowest responsive and responsible bid. DWM recommends award to Carolina Civilworks Inc. and establishing a 10% contract contingency due to the potential issues encountered during utility construction projects.

**Motion**

To authorize the City Manager to execute a construction contract with Carolina Civilworks Inc. for the Parkwood Area Lift Station Consolidation Project in the amount of \$13,098,505.64;

To establish a contingency fund for the contract in the amount of \$1,309,850;

To authorize the City Manager to negotiate change orders for the contract provided that the total project cost does not exceed \$14,408,355.64; and

To adopt an ordinance amending the Water and Wastewater Capital Improvement Plan Ordinance, Fiscal Year 2022-23, as amended, the same being Ordinance # 15953, for the purpose of reallocating Department of Water Management Capital Improvement Plan funding for the Department of Water Management Parkwood Area Lift Station Consolidation Project.

**Background**

DWM is responsible for operation, maintenance, evaluation, rehabilitation, and improvement of the sanitary sewer system throughout the City. DWM currently maintains roughly 65 lift stations of various types and sizes.

The existing Parkwood lift station and force main are nearing their maximum capacity and life span. An engineering study recommended a new lift station and force main while consolidating two other lift stations – Elmset and Newhall. A single lift station replacement avoids numerous separate and smaller lift stations, significantly reducing the City’s future maintenance costs.

The existing Parkwood lift station was built in 1978 and has a capacity of 750,000 gallons per day (gpd). The existing Elmset lift station was built in 1971 and has a capacity of 4,000 gpd. The existing New Hall lift station was built in 1998 and has a capacity of 4,200 gpd. A new lift station and force main with increased capacity of 1.57 mgd will be constructed on the same property as the original Parkwood lift station located at 5729 Grandale Drive and 3,200 feet, 10-inch force main will also be constructed.

Both the Elmset and Newhall lift stations will be demolished with their flow being redirected by gravity to the new lift station. These new gravity mains are comprised of approximately 5,000 feet of 8- and 12- inch mains. See Attachment 1 for the limits of the project area.

**Issues and Analysis**

DWM originally advertised the project for bid in January 2023 and bids were opened on February 24, 2023. The bid results were:

Carolina Civilworks Inc.	\$13,098,505.64
Keiwit Infrastructure South Company	\$18,239,000
TA Loving Company	\$20,498,000

DWM, its consultant, and the Finance Department’s Contract and Compliance division performed a due diligence investigation of the lowest bid and determined that Carolina Civilworks Inc. is the lowest responsive and responsible bidder.

**Alternatives**

Do not move forward with the project. This alternative would mean upgrading the three stations individually to current standards. This would cost more and cause greater operations and maintenance challenges.

**Financial Impact**

The project will utilize funds available in the Parkwood Area Lift Station Consolidation Project fund:

4100P002-731000-P28WZ	\$13,098,505.64
4100P002-731900-P28WZ	<u>\$1,309,850</u>
Total	\$14,408,355.64

In addition to the available funds shown above, a Capital Improvement Project (CIP) Ordinance Amendment to reallocate \$1,756,294.36 of the Department of Water Management’s (DWM’s) CIP funds

is necessary to cover cost of construction. DWM proposes to reallocate the following funds into PALSCO – P28WZ. Details of this funds reallocation are provided in the attached CIP Ordinance Amendment.

CIP Budget Line Item	Description	Amount
(b) 3	Orange Co. Economic Development Zone Improvements – P2650	\$1,756,294.36
<b>Total</b>		<b>\$1,756,294.36</b>

The Orange Co. Economic Development Zone Improvements project has been completed and these monies can be reallocated within the CIP.

**Equal Business Opportunity Summary**

The Underutilized Business Compliance division reviewed the proposal submitted by Carolina Civilworks Inc. of Durham, NC to determine if they are in compliance with the Ordinance to Promote Equal Business Opportunities in City Contracting. The goals for this project are MUBE 11% and WUBE 7%. Carolina Civilworks Inc. did not meet the assigned goals. After review, it was determined they demonstrated Good Faith Efforts and is in compliance with the Ordinance.

Carolina Civilworks Inc. will subcontract to the following certified firms:

Firm	ID	City/State	Amount	% of Contract
CITI	MUBE	Cary, NC	117,803	.90%
IQ Contracting	MUBE	Raleigh, NC	695,800	5.3%

**Contractor Workforce Diversity & Hiring Practices**

According to the contractor’s responses to the “Contractor Workforce Diversity Questionnaire” the contractor is a medium employer (50 - 100 employees) consisting of a mix of professional/skilled and unskilled workers. The contractor believes it has a diverse workforce because of the percentage minorities and women they employ. The contractor did list a few examples of efforts it makes to have a more diverse workforce.

**Employee Diversity Breakdown for Primary Location**

Employment Category	Total Employees	Total Males	Total Females	Males					Females					
				White	Black	Hispanic	Asian or Pacific Islander	Indian or Alaskan Native	White	Black	Hispanic	Asian or Pacific Islander	Indian or Alaskan Native	
Project Manager	7	7		7										
Professional														
Labor	76	76		26		50								
Clerical	2		2						2					
Totals	85	83	2	33		50			2					

Employee Diversity Breakdown for the Consolidated Company

Employment Category	Total Employees	Total Males	Total Females	Males					Females				
				White	Black	Hispanic	Asian or Pacific Islander	Indian or Alaskan Native	White	Black	Hispanic	Asian or Pacific Islander	Indian or Alaskan Native
Project Manager	7	7		7									
Professional													
Labor	76	76		26		50							
Clerical	2		2						2				
Totals	85	83	2	33		50			2				

**Attachments**

- Attachment 1 – Figure 1: Map of the Project Area
- Attachment 2 – Contract
- Attachment 3 – Notice of Intent to Award
- Attachment 4 – Recommendation of Award
- Attachment 5 – Certified Bid Tabulation
- Attachment 6 – Bid Form
- Attachment 7 – CIP Ordinance Amendment