

**DEPARTMENTAL INPUT  
CONTRACT MEASURE ANALYSIS AND RECOMMENDATION**

To: Gary T. Hartfield, Division Director  
Internal Services Department  
Small Business Development Division

From: Isaac Smith, Chief  
Construction Contracts Division

Department: Miami-Dade Water and Sewer Department

Contract Title: 72-INCH WATER MAIN IN WEST 2ND AVENUE BETWEEN  
11TH STREET AND 13TH STREET

Contract No.: W-942

Estimate Amount: \$8,956,645.50 [\$8,142,405.00 Construction + \$814,240.50 Contingency]

Funding Source: EW 258, WASD Revenue Bonds Sold

<b>Small Business Enterprise – Construction – 2.49%</b> <b>Analysis for Recommendation (Attached)</b>
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Department Head or Authorized Agent

**DESCRIPTION OF PROJECT:**

This project is one in a series of projects that are being processed under Section 2-8.2.12 of the Code, entitled Miami-Dade Water and Sewer Department Consent Decree and Capital Improvement Programs Accelerate Ordinance.

The project is for the construction of a redundant 72-inch Prestressed Concrete Embedded Cylinder Pipe (PCECP) water main to be installed in West 2<sup>nd</sup> Avenue between 11<sup>th</sup> Street and 13<sup>th</sup> Street, within and nearby the WASD's Preston Water Treatment Plant, in City of Hialeah, Florida.

The scope of work includes furnishing and installing approximately 80 LF of 48-inch, 60 LF of 54-inch, 300 LF of 60-inch, and 776 LF of 72-inch PCECP water mains; seven (7) flanged butterfly valves with operators of 48-inch, 54-inch, 60-inch, and 72-inch sizes; four (4) access manholes with vaults; two (2) manual air release valves; four (4) blow-off valve assemblies; interconnections to existing 60-inch, 54-inch, and 48-inch Prestressed Concrete Cylinder Pipe (PCCP), within the Preston Water Treatment Plant compound and in West 2nd Avenue.

The project includes the relocation of existing water, sewer, drainage, and compressed air facilities along the route of the new PCECP main, including furnishing and installing approximately 135 LF of 8-inch DIP water main, valves, and fittings; 196 LF of 8-inch PVC gravity sewer and fittings; five (5) sanitary manholes; 20 LF of 15-inch, 122 LF of 18-inch, and 92 LF of 24-inch diameter high-density polyethylene (HDPE) storm sewer and fittings, three (3) Type 'P' catch basins, four (4) Type 'P' manholes, one (1) concrete endwall, french drain installation, and swale grading; restoration and reconstruction of concrete sidewalk, driveway, curb and gutter; milling and resurfacing of existing pavement; replacement of pavement markings damaged or removed by construction activities; replacement of sod; and restoration of all green areas, fencing, gates, irrigation lines and all other items affected by construction operations.

## **MINIMUM CONTRACTOR EXPERIENCE:**

Bidders shall submit proof that their firm (which can include the experience of key supervisory employees that would man the project) has successfully completed comparable projects meeting the following criteria:

1. The Contractor shall have completed, as prime, a minimum of one project involving PCCP materials of construction, of sizes 48-inches or larger in South Florida geology
2. The Contractor shall have installed at least 2,000 LF of Prestressed Concrete Cylinder Pipe of 48-inches or larger within the past 10 years.
3. The Contractor's key personnel shall have experience with installation of PCCP (foreman, superintendent, operator) at least 3 projects or 2,000 LF

## **CONSIDERATIONS FOR ANALYSIS:**

1. This project involves installation of a large diameter water main involving Prestressed Concrete Embedded Cylinder Pipe (PCECP) and Prestressed Concrete Cylinder Pipe (PCCP), which requires the use of large equipment and capable of deeper trench installations. Trench line shoring and use of highly specialized divers to guide installation will be necessary.
2. In addition, the success of the project involves interconnections to large diameter PCCP mains of various sizes, including 60-inch, 54-inch, and 48-inch PCCP.
3. Many portions of the work requires the use of heavy equipment, such as the installation of 48 through 72-inch flanged butterfly valves.
4. Recommended opportunity for SBE-Construction participation is in the area of roadway pavement restoration, milling, drainage and utility relocation, pavement marking restoration, installation of access manholes and ductile iron pipe and fittings.

**LICENSES:** The types of licenses required are: General Engineering, State Underground, Pipeline and/or other categories as applicable by Chapter 489 of the Florida Statutes or Chapter 10 of Miami-Dade County Code.

## **COMMUNITY WORKFORCE PROGRAM**

**CWP PARTICIPATION: Not Applicable, project is not located in a DTA.**

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<b>Small Business Enterprise – Goods &amp; Services – 0.78%</b> <b>Analysis for Recommendation (Attached)</b>
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**CONSIDERATIONS FOR ANALYSIS:**

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2. In addition, the success of the project involves interconnections to large diameter PCCP mains of various sizes, including 60-inch, 54-inch, and 48-inch PCCP.
3. The Department has evaluated the project for possible opportunities for participation in the area of SBE – Goods and Services. Based on the scope and nature of the work, we have concluded that are limited opportunities for participation in this project.
4. The possible areas of subcontracting are in the area of Maintenance of Traffic, Pavement Marking, Milling, Paving, Sidewalk restoration, providing geotechnical and soft-dig services. Our recommendation is in the area of Services for providing Maintenance of Traffic for the project.
5. **Therefore, for SBE- Goods and Services the recommended participation goal of 0.78%.**

<b>Analysis for Small Business Enterprise – Goods and Services Recommendation</b>				
Item	Goods & Services	Prime Contractor	Sub-Contractor	SBE Availability
1.	<b>GOODS:</b> PCCP PCECP Butterfly Valves Access Manholes Limerock HDPE Drainage Catch Basin & Manhole	X X X X	    X X X	    X X X
2.	<b>SERVICES</b> Utility Piping Drainage Furnishing Traffic Control Replacing Pavement Markings Roadway Milling Permanent Paving Sodding Replacement Geotechnical Services Soft-Dig Services	X X   X X	X X X X X X X X X	   X X X X X