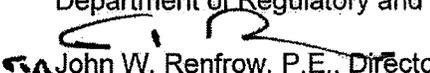


# Memorandum



Date: November 4, 2013

To: Jack Osterholt, Director  
Department of Regulatory and Economic Resources

From:  John W. Renfrow, P.E., Director  
Miami-Dade Water and Sewer Department

Subject: Review Item: Non-Exclusive Professional Services Agreement for Design Services for Wastewater Treatment Plants related to Consent Decree Projects - Project Number E13-WASD-05

The Miami-Dade Water and Sewer Department (WASD) is requesting that the subject project be reviewed for Community Business Enterprise (CBE) measures, in order to proceed with the advertisement and subsequent consultant selection for this project.

WASD intends to retain one (1) qualified firm under a Non-Exclusive Professional Services Agreement (PSA). The total maximum compensation will be negotiated with the selected Consultant. The term of the PSA is five (5) year with two (2) five (5) year options-to-renew.

The Consultant shall perform preliminary design, design development, construction documents, permitting and bid services, and design services during construction for upgrades at all three (3) of the County's wastewater treatment plants (South District, Central District and North District) for projects specified in conjunction with the CD and attached as an appendix to this solicitation.

The firms providing these services must be certified in the following technical categories and the respective percentages of the disciplines as indicated below:

Technical Category	Description	Percent	CBE %
<b>6.02 PRIME</b>	Major Water and Sanitary Sewage Pumping Facilities	10	2
<b>6.03 PRIME</b>	Water and Sanitary Sewage Treatment Plants	25	8
9.01	Drilling, Subsurface Investigations and Seismographic Services	1	1
9.02	Geotechnical and Materials Engineering Services	1	1
9.04	Non-Destructive Testing and Inspections	1	1
10.05	Contamination Assessment and Monitoring	1	1
11.00	General Structural Engineering	15	3
12.00	General Mechanical Engineering	15	3
13.00	General Electrical Engineering	15	3
15.01	Land Surveying	1	1
16.00	General Civil Engineering	5	1
	<b>TOTAL</b>	<b>100</b>	<b>25</b>

WASD is recommending a 20 percent (20%) CBE goal participation for this PSA. Attached is WASD's Departmental Input Worksheet and Notice to Professional Consultants for your review and approval. Should you have any questions, please contact Patty David, Acting Chief, Intergovernmental Affairs Section [pattyd@miamidade.gov](mailto:pattyd@miamidade.gov) or (786) 552-8040.

Attachments

**DEPARTMENTAL INPUT**  
**CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION**

**Contract/Project Title:** Design Services for Wastewater Treatment Plants related to the Consent Decree Projects

**Contract/Project No.** E13-WASD-05

**Description:** Design Services for Wastewater Treatment Plants related to the Consent Decree Projects

**DEPARTMENT:** Miami-Dade Water and Sewer Department      **CONTACT:** Patty David

**PHONE:** (786) 552-8040

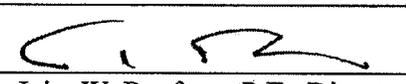
**Estimated Cost:** To be negotiated with the selected consultant

**Funding Source:** WASD 2013 Revenue Bonds Sold, Wastewater Renewal Fund and WASD Revenue Bonds Sold

**ANALYSIS**

Commodity/Service No. _____	SIC: _____	<u>Trade/Commodity/Service Opportunities</u>	
<p><b><u>Contract/Project History of Previous Purchases for Previous Three (3) Years</u></b>          Check Here      if this is a New Contract/Purchase with no Previous History</p>			
	<u>Existing</u>	<u>2<sup>nd</sup> Year</u>	<u>1<sup>st</sup> Year</u>
Contractor	<input type="checkbox"/>	_____	_____
Ethnicity/Race	_____	_____	_____
Gender	_____	_____	_____
Contract Value	_____	_____	_____
COMMENTS: _____			

**RECOMMENDATIONS**

<u>CBE GOAL</u> 25 %	<u>BID PREFERENCE</u>	<u>NO MEASURE</u>
<u>Analysis for Goal Recommendation</u>		
<u>Sub-Trade</u>	<u>Est. Cost</u>	<u>% of Item to Base Bid</u>
_____	\$ _____	_____
_____	\$ _____	_____
_____	\$ _____	_____
Total:	\$ _____	_____
<p><b>Basis for Recommendation:</b> WASD proposes that the goal can be achieved with CBE firms assisting with 6.02-2%; 6.03-8%; 9.01-1%, 9.02- 1%, 9.04-1%, 10.05-1%, 11.00-3%, 12.00- 3%, 13.00-3%, 15.01-1%, and 16.00- 1%</p>		
		
By: John W. Renfrow, P.E., Director	Date: 11/14/13	Regulatory and Economic Resources      Date: _____

**MIAMI-DADE COUNTY, FLORIDA  
NOTICE TO PROFESSIONAL CONSULTANTS  
MIAMI-DADE WATER AND SEWER DEPARTMENT  
DESIGN SERVICES FOR WASTEWATER TREATMENT PLANTS  
RELATED TO THE CONSENT DECREE PROJECTS  
PROJECT NO. E13-WASD-05**

The County Mayor, Miami-Dade County (County), pursuant to Chapter 287.055, Florida Statutes, Sections 2-8.1 and 2-10.4 of the Miami-Dade County Code, Implementing Order 3-34, and Administrative Order 3-39, announces that the Miami-Dade Water and Sewer Department (WASD) will require professional engineering services from a qualified Consultant to provide design services for wastewater treatment plants related to the Consent Decree projects.

WASD is the primary provider of water and wastewater services to Miami-Dade County serving a population of almost 2.3 million, making it among the largest water/wastewater utilities in the United States. On May 21, 2013, the Board of County Commissioners approved the Consent Decree (CD) negotiated with the United States Environmental Protection Agency (EPA), the United States Department of Justice (DOJ) and the State of Florida Department of Environmental Protection (FDEP). The CD outlines the activities to be undertaken to reduce Sanitary Sewer Overflows (SSO's), exceedances of treated effluent limitations, and to ensure proper management, operation and maintenance practices. All capital improvement projects must be completed on or before fifteen (15) years from the date of lodging (June 6, 2013) of the CD with the United States District Court. Many program requirements are required to be delivered within a certain time after the CD's "effective date" which is defined as the date the court enters the CD or six (6) months after the date of lodging whichever occurs first. WASD recognizes the need for design services at the wastewater treatment plants as part of the capital improvement program. The Consultant shall be familiar with the most recent version of the CD which will be available for review at WASD's website at <http://www.miamidade.gov/water/wastewater-improvement-projects.asp>

The Consultant shall perform preliminary design, design development, construction documents, permitting and bid services, and design services during construction for upgrades at all three (3) of the County's wastewater treatment plants (South District, Central District and North District) for projects specified in conjunction with the CD and attached as an appendix to this solicitation.

The Consultant selected will be required to work in coordination with WASD staff to deliver an integrated construction approach and schedule that does not adversely impact wastewater treatment plants (WWTP) operations, treatment capacity, or effluent quality. The Consultant shall ensure that the design of the capital improvements are technically, economically, and functionally consistent and are implemented in a manner that meets the specific deadlines and milestones of the CD and the requirements of the Clean Water Act, WASD's National Polluted Discharge Elimination System Permits, FDEP regulations, and any additional applicable regulatory requirements.

Design services to be provided by the Consultant will include, but are not limited, to the following:

- Develop the Basis of Design Reports (BODR) for the capital program at the WWTP's, while taking into account all project alternatives using life cycle cost analysis and identifying and recommending mitigation options to deal with future sea level rise and storm surge.
- Use of Building Information Modeling Technology 3D, 4D and 5D modeling.
- Perform wastewater treatment process modeling and computational fluid dynamic modeling in support of design efforts.
- Conduct and/or coordinate underground utility and sub-surface investigations in support of the BODR.
- Perform pilot testing as necessary to confirm specific design parameters.
- Based on the Department's approved BODR and delivery method (i.e. Design-Bid-Build, Design-Build) the Consultant will prepare the required bid documents.
- Assist WASD in evaluating procurement methods for equipment.
- Attain all applicable permits as necessary depending on the delivery method selected.
- Assist WASD in the bid process, including responding to RFI's, reviewing bids and making recommendations for award.
- Provide design services during construction including but not limited to reviewing and responding to all contractor submittals, review and respond to all contractor claims, review and respond to RFI's and review of final certification documents provided by the contractor(s).

#### Minimum Experience and Qualifications

A Prime Consultant submitting must be experienced in all phases of wastewater engineering, including design, permitting, construction, and operation and maintenance of wastewater treatment and disposal systems.

The Prime Consultant should also have experience with design and commissioning of wastewater treatment plant upgrades of similar scope and complexity within the last ten (10) years from the date of this solicitation. The Prime Consultant shall provide a list of members of the proposed Design Team, identifying the overall Design Manager(s), and the team leaders for key design specialties (process-liquid stream treatment, process – biosolids treatment, civil, structural, mechanical, electrical and instrumentation) and the specific role each one of them will perform.

The Prime Consultant shall have at least one (1) successfully designed, constructed and which is currently under operations for a major new or upgraded wastewater treatment plant(s) of similar size and scope as in this solicitation in which the Prime Consultant has served as the designer within the past ten (10) years from the date of solicitation. For projects which the Consultant has served as the design consultant, the Consultant shall provide the name and contact information for a Utility Executive with the Utility they served as the design consultant who can confirm their role. The descriptions shall include the client (i.e., municipality or agency), key project staff, the project name, a summary of the work performed, the contract amount, the schedule (to include start and completion dates), the specific role of the prime firm, the achievements (e.g., projects delivered on schedule, dollars saved, innovative designs implemented, new technology utilized), and a client reference and contact information. All work with WASD of a similar nature should likewise be described to assure familiarity with WASD's system.

The Subconsultants shall have at least one (1) program or project that is relevant to this scope of work within the past ten (10) years from the date of this solicitation specific to their proposed responsibilities with the exception of technical categories 9.01-Drilling, Subsurface Investigations and Seismographic Services, 9.02-Geotechnical and Materials Engineering Services and 9.04-Non-Destructive Testing and Inspections. The descriptions shall include the client (i.e., municipality or agency), key project staff, a summary of the work performed, the contract amount, the schedule (to include start and completion dates), the specific role of the subconsultant firm, the project's achievements, and client reference and contact information. All work with WASD of a similar nature should likewise be described to assure familiarity with WASD's system.

WASD intends to retain one (1) qualified Consultant under a Non-Exclusive Professional Service Agreement (PSA) for a term of five (5) years with two (2) five (5) year options-to-renew at the County's sole discretion will be awarded under this solicitation. The total amount of compensation will be negotiated with the selected Consultant. No minimum amount of work or compensation will be assured to the retained consultant. The County reserves the right to re-use the work products of the retained consultant and to retain other consultants to provide the same or similar services at its sole discretion. The consultant coordinator for this project is \_\_\_\_\_ who may be contacted via email at \_\_\_\_\_ or fax at \_\_\_\_\_ with a copy to the Clerk of the Board.

The firms providing these services must be certified in the following technical categories and the respective percentages of the disciplines as indicated below:

#### **A/E TECHNICAL CERTIFICATION REQUIREMENTS**

##### **Prime**

- 6.02 Major Water and Sanitary Sewage Pumping Facilities
- 6.03 Water and Sanitary Sewage Treatment Plants

**Prime and/or Subconsultants**

- 9.01 Drilling, Subsurface Investigations and Seismographic Services
- 9.02 Geotechnical and Materials Engineering Services
- 9.04 Non-Destructive Testing and Inspections
- 10.05 Contamination Assessment and Monitoring
- 11.00 General Structural Engineering
- 12.00 General Mechanical Engineering
- 13.00 General Electrical Engineering
- 15.01 Land Surveying
- 16.00 General Civil Engineering

**BREAKDOWN LIST**

Technical Category	Description	Percent	CBE %
6.02 PRIME	Major Water and Sanitary Sewage Pumping Facilities	20	2
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9.01	Drilling, Subsurface Investigations and Seismographic Services	1	1
9.02	Geotechnical and Materials Engineering Services	1	1
9.04	Non-Destructive Testing and Inspections	1	1
10.05	Contamination Assessment and Monitoring	1	1
11.00	General Structural Engineering	15	3
12.00	General Mechanical Engineering	15	3
13.00	General Electrical Engineering	15	3
15.01	Land Surveying	1	1
16.00	General Civil Engineering	5	1
	<b>TOTAL</b>	<b>100</b>	<b>25</b>