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Memorandum

MIAMI-DADE  
COUNTY

RECEIVED  
DEPT. BUSINESS DEV.  
2012 OCT -5  
AM 10: 22

Date: October 3, 2012

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 for contract administration and construction management services from a qualified consultant to manage the design, permitting and construction for the replacement of the 54-inch sanitary sewage force main pipeline with a 60-inch sanitary sewage force main pipeline from Fisher Island, under the Norris Cut, to the Central District Wastewater Treatment Plant located at Virginia Key - Project No. E12-WASD-04

It is recommended that the Department of Regulatory and Economic Resources review the attached request for Community Business Enterprise (CBE) measures for this project, in order to proceed with the advertisement and subsequent consultant selection for this contract.

The scope of services consists of contract administration and construction management services from a qualified consultant to manage the design, permitting and construction for the replacement of the 54-inch sanitary sewage force main pipeline with a 60-inch sanitary sewage force main pipeline from Fisher Island, under the Norris Cut, to the Central District Wastewater Treatment Plant located at Virginia Key. The selected consultant will provide professional services as specified in the attached Notice to Professional Consultants.

The proposed professional service agreement will be for a five (5) year period with the maximum compensation of five million dollars (\$5,000,000), plus contingency in accordance with Ordinance 00-65.

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 No.	Description	Percentage	CBE Percentage/ Amount	Amount
3.02A PRIME	Highway Systems-Tunnel Design	10		
3.12	Underwater Engineering Inspection	10		

6.01 PRIME	Water Distribution and Sanitary Sewage Collection and Transmission Systems	10	4	\$200,000
6.02 PRIME	Major Water and Sanitary Sewage Pumping Facilities	2		
5.01	Port and Waterway Systems, Engineering Design	3		
5.08	Port and Waterway Systems, Marine Engineering Design	2		
10.05	Contamination Assessment and Monitoring	2		
10.10	Coastal Process and Ocean Engineering	2		
11.00	General Structural Engineering	10	4	\$200,000
12.00	General Mechanical Engineering	2	2	\$100,000
13.00	General Electrical Engineering	2	2	\$100,000
15.01	Land Surveying and Mapping	2	2	\$100,000
15.03	Underground Utility Location	2		
16.00	General Civil Engineering	6	5	\$250,000
17.00 PRIME	Engineering Construction Management	35	6	\$300,000
	TOTAL	100%	25%	\$1,250,000

The Prime consultant must hold the following Technical Categories: **3.02A Highway Systems-Tunnel Design, 6.01 Water Distribution and Sanitary Sewage Collection and Transmission Systems, 6.02 Major Water and Sanitary Sewage Pumping Facilities, and 17.00 Engineering Construction Management.**

The Prime consultant is required to have experience with design, inspection and construction management of tunneling projects within the past five (5) years.

The Prime or any of the subconsultants are required to have experience with the design, inspection and construction management of underwater structures including marine shafts and their appurtenant facilities with the past five (5) years.

WASD is recommending a 25% CBE participation goal. Attached is WASD's Departmental Input Worksheet for your review and approval.

Should you have any questions, please contact Patty David, A/E Professional Services Manager at [pattyd@miamidade.gov](mailto:pattyd@miamidade.gov) or (786) 552-8040.

Attachments

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

**Contract/Project Title:** Contract administration and construction management services from a qualified consultant to manage the design, permitting and construction for the replacement of the 54-inch sanitary sewage force main pipeline with a 60-inch sanitary sewage force main pipeline from Fisher Island, under the Norris Cut, to the Central District Wastewater Treatment Plant located at Virginia Key

**Contract/Project No.** E12-WASD-04

**DESCRIPTION:** Contract administration and construction management services from a qualified consultant to manage the design, permitting and construction for the replacement of the 54-inch sanitary sewage force main pipeline with a 60-inch sanitary sewage force main pipeline from Fisher Island, under the Norris Cut, to the Central District Wastewater Treatment Plant located at Virginia Key

**DEPARTMENT:** Miami-Dade Water and Sewer Department **CONTACT:** Patty David **PHONE:** (786) 552-8040

**ESTIMATED COST:** \$5 million **FUNDING SOURCE:** WASD Revenue Bonds

**ANALYSIS**

Commodity/Service No. \_\_\_\_\_ SIC: \_\_\_\_\_

Trade/Commodity/Service Opportunities

**Contract/Project History of Previous Purchases for Previous Three (3) Years**  
 Check Here  if this is a New Contract/Purchase with no Previous History

Existing                      2<sup>nd</sup> Year                      1<sup>st</sup> Year

Contractor	_____	_____	_____
Ethnicity/Race	_____	_____	_____
Gender	_____	_____	_____
Contract Value	_____	_____	_____

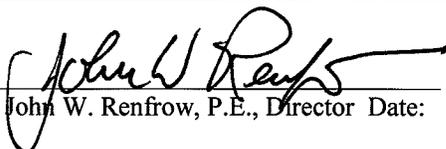
COMMENTS: \_\_\_\_\_

<u>CBE GOAL</u>	<u>BID PREFERENCE</u>	<u>NO MEASURE</u>
<u>25 %</u>	_____	_____

Analysis for Goal Recommendation

<u>Sub-Trade</u>	<u>Est. Cost</u>	<u>% of Item to Base Bid</u>	<u>Availability</u>
_____	\$ _____	_____	_____
_____	\$ _____	_____	_____
_____	\$ _____	_____	_____
<b>Total:</b>	<b>\$ _____</b>	_____	_____

Basis for Recommendation: WASD proposes that the goal can be achieved with the CBE firm assisting with – 4% 6.01 Water Distribution and Sanitary Sewage Collection and Transmission Systems; 4% 11.00 General Structural Engineering; 2% 12.00 General Mechanical Engineering; 2% 13.00 General Electrical Engineering; 2% 15.01 Surveying and Mapping, Land Survey; 5% 16.00 General Civil Engineering; and 6% 17.00 Engineering Construction Management

By:  \_\_\_\_\_  
 John W. Renfrow, P.E., Director

\_\_\_\_\_ Date: Regulatory and Economic Resources

MIAMI-DADE COUNTY, FLORIDA  
NOTICE TO PROFESSIONAL CONSULTANTS

**MIAMI-DADE WATER AND SEWER DEPARTMENT  
CONSTRUCTION MANAGEMENT SERVICES FOR  
THE REPLACEMENT OF THE EXISTING 54-INCH SANITARY SEWAGE FORCE  
MAIN PIPELINE WITH A 60-INCH SANITARY SEWAGE FORCE MAIN PIPELINE  
FROM FISHER ISLAND TO VIRGINIA KEY  
PROJECT NO. E12-WASD-04**

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 professional engineering services are required for the Miami-Dade Water and Sewer Department (WASD) for contract administration and construction management services from a qualified consultant to manage the design, permitting and construction for the replacement of the 54-inch sanitary sewage force main pipeline with a 60-inch sanitary sewage force main pipeline from Fisher Island, under the Norris Cut, to the Central District Wastewater Treatment Plant located at Virginia Key.

The selected consultant will provide contract administration, construction management and field inspection services that will include but are not limited to; engineering and construction administration activities during the design, permitting and construction phase of the design-build contract, daily on-site inspections, maintaining daily progress log(s), review and approve schedules and schedule of values, and other documents as necessary, process and authorize progress payments including allowance accounts and change orders, review and accept as-built drawings, utilize WASD's Project Control Tracking System (PCTS) to track all documents and activities, and interface with the design-build criteria professional and the design-build contractor as needed; respond to requests for information.

The consultant shall develop, implement and maintain a Quality Assurance (QA) & Quality Control (QC) and Safety Program Plan for the Project. The consultant will be required to follow existing WASD engineering and construction management practices and to prepare a QC manual used by the consultant and WASD throughout the project. The consultant will be required to perform requisite site and facility inspections of the design build team offices, subconsultants, manufacturers, suppliers, construction and other related sites to perform QA and QC inspections.

The following restrictions apply for the following solicitations:

- AECOM Technical Services, Inc., the design criteria professional under Project No. E07-WASD-09 for the design-build project for the replacement of the 54-inch sanitary sewage force main pipeline with a 60-inch sanitary sewage force main pipeline from Fisher Island, under the Norris Cut, to Central District Wastewater Treatment Plant located at Virginia Key together with their subconsultants or members are also precluded from submitting a proposal and from an award of this project. The County reserves the right to disqualify any proposal for a team which includes any subconsultant and/or individual who has played a substantial role in the development of the design criteria package or whose involvement with the design-build team would confer upon that team an unfair competitive advantage because of such subconsultant's or member's prior involvement in the project.

- The selected construction management professional and their sub-consultants will be precluded from participating on the design-build construction team for the replacement of the 54-inch sanitary sewage force main pipeline with a 60-inch sanitary sewage force main pipeline from Fisher Island, under the Norris Cut to the Central District Wastewater Treatment Plant located at Virginia Key.

Minimum Requirements:

The Prime consultant is required to have experience with the design, inspection and construction management of tunneling projects within the past five (5) years.

The Prime or any of the subconsultants are required to have experience with the design, inspection and construction management of underwater structures including marine shafts and their appurtenant facilities within the last five (5) years.

WASD intends to retain one qualified team under a non-exclusive Professional Services Agreement. The term of the contract is for a five year (5) year period. Maximum compensation is five million dollars (\$5,000,000), plus contingency in accordance with Ordinance 00-65. 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 e-mail at \_\_\_\_\_ or fax at \_\_\_\_\_ with copy to the Clerk of the Board.

## TECHNICAL CERTIFICATION REQUIREMENTS

### Prime

- 3.02A Highway Systems - Tunnel Design
- 6.01 Water and Distribution and Sanitary Sewage Collection and Transmission Systems
- 6.02 Major Water and Sanitary Sewage Pumping Facilities
- 17.00 Engineering Construction Management

### Prime/Subconsultants

- 3.12 Underwater Engineering Inspection
- 5.01 Port and Waterway Systems, Engineering Design
- 5.08 Port and Waterway Systems, Marine Engineering Design
- 10.05 Contamination Assessment and Monitoring
- 10.10 Coastal Processes and Ocean Engineering
- 11.00 General Structural Engineering
- 12.00 General Mechanical Engineering
- 13.00 General Electrical Engineering
- 15.01 Land Surveying
- 15.03 Survey and Mapping, Underground Utility Location
- 16.00 General Civil Engineering

**CBE Goal  
BREAKDOWN LIST**

		%	CBE %
3.02A	Tunnel Design	10	
3.12	Underwater Engineering Inspection	10	
6.01	Water Distribution and Sanitary Sewage Collection and Transmission Systems	10	4
6.02	Major Water and Sanitary Sewage Pumping Facilities	2	
5.01	Port and Waterway Systems, Engineering Design	3	
5.08	Port and Waterway Systems, Marine Engineering Design	2	
10.05	Contamination Assessment and Monitoring	2	
10.10	Coastal Process and Ocean Engineering	2	
11.00	General Structural Engineering	10	4
12.00	General Mechanical Engineering	2	2
13.00	General Electrical Engineering	2	2
15.01	Survey and Mapping, Land Surveying	2	2
15.03	Survey and Mapping, Underground Utility Location	2	
16.00	General Civil Engineering	6	5
17.00	Engineering Construction Management	35	6
	<b>Total</b>	<b>100</b>	<b>25</b>