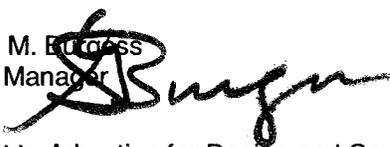


MEMORANDUM



Date: June 26, 2007

To: Honorable Chairman Bruno A. Barreiro
and Members, Board of County Commissioners

From: George M. Burgess
County Manager 

Subject: Request to Advertise for Design and Construction Management Services for the South District
Wastewater Treatment Plant Water Reclamation Facility - Contract No: E07-WASD-02

Agenda Item No. 8(R)3(G)

Recommendation

This Request to Advertise for a consultant selection for Contract No. E07-WASD-02 has been prepared by the Miami-Dade Water and Sewer Department (MDWASD) and is recommended for approval. The consultant is to provide planning, design, permitting and construction management services for the Phase One construction of a 30 MGD Water Reclamation Facility at the MDWASD South District Wastewater Treatment Plant (SDWWTP).

Scope

PROJECT NAME: Design and Construction Management Services for the South District Wastewater Treatment Plant Water Reclamation Facility

PROJECT NO: E07-WASD-02

CONTRACT NO: E07-WASD-02

PROJECT DESCRIPTION: The consultant is to provide planning, design, permitting and construction management services for the Phase One construction of a 30 MGD Water Reclamation Facility at the MDWASD SDWWTP. Flows from this Phase 1 Water Reclamation Facility will be utilized for ground water replenishment, therefore, micro-filtration technology and reverse osmosis treatment will be required. Subsequent phases of the SDWWTP water reclamation program will expand the flow capacity to approximately 60 MGD with flows utilized for additional groundwater recharge and coastal wetlands rehydration projects.

PROJECT LOCATION: 8950 SW 232nd Street, Goulds, Florida 33170

PRIMARY COMMISSION DISTRICT: District 8 Katy Sorenson

APPROVAL PATH: Board of County Commissioners

OCI A&E PROJECT NUMBER: E07-WASD-02

USING DEPARTMENT: Miami-Dade Water and Sewer Department

MANAGING DEPARTMENT: Miami-Dade Water and Sewer Department

Fiscal Impact / Funding Source

FUNDING SOURCE: **SOURCE**
 Future WASD Revenue Bonds, WASD Revenue Bond Sold, State Revolving Loan Wastewater Program, and Wastewater Connection Charges

PTP FUNDING: No

GOB FUNDING: No

CAPITAL BUDGET PROJECT:	<u>BUDGET PROJECT / DESCRIPTION</u>	<u>RTA ESTIMATE</u>
	96510240-SOUTH DISTRICT WASTEWATER TREATMENT PLANT - HIGH LEVEL DISINFECTION Book Page: 310 Funding Year: Adopted Capital Budget Book for 2006-2007 from Prior Years' Funding	<u>\$55,000,000.00</u>

PROJECT TECHNICAL CERTIFICATION REQUIREMENTS:	<u>TYPE CODE DESCRIPTION</u>
	Prime 6.03 WATER AND SANITARY SEWER SYSTEMS - WATER AND SANITARY SEWAGE TREATMENT PLANTS
	Prime 11.00 GENERAL STRUCTURAL ENGINEERING
	Prime 17.00 ENGINEERING CONSTRUCTION MANAGEMENT
	Other 9.02 SOILS, FOUNDATIONS AND MATERIALS TESTING - GEOTECHNICAL AND MATERIALS ENGINEERING SERVICES
	Other 12.00 GENERAL MECHANICAL ENGINEERING
	Other 13.00 GENERAL ELECTRICAL ENGINEERING
	Other 15.01 SURVEYING AND MAPPING - LAND SURVEYING
	Other 16.00 GENERAL CIVIL ENGINEERING

ESTIMATED CONTRACT PERIOD: 2555 Consecutive Calendar Days Calendar Days: 7 years. 1 year = Study, 1.5 years = Planning – Design, 1 year = Permitting – Procurement, 3.5 years = Construction - Start-Up.

ESTIMATED CONTINGENCY PERIOD: 256 Consecutive Calendar Days

IG FEE INCLUDED IN BASE CONTRACT: Yes

ART IN PUBLIC PLACES: No

BASE ESTIMATE: \$50,000,000.00

CONTINGENCY ALLOWANCE (SECTION 2-8.1 MIAMI DADE COUNTY CODE):	TYPE	PERCENT	AMOUNT	COMMENT
	PSA	10%	\$5,000,000.00	
TOTAL DEDICATED ALLOWANCE:			\$0.00	
COST ESTIMATE:			\$55,000,000.00	

Track Record / Monitor

EXPLANATION:

MINIMUM QUALIFICATIONS EXCEED LEGAL REQUIREMENTS: No

REVIEW COMMITTEE: **MEETING DATE:** 4/11/2007 **SIGNOFF DATE:** 4/11/2007

RESPONSIBLE WAGES: No

REVIEW COMMITTEE ASSIGNED CONTRACT MEASURES:	MEASURE GOAL	COMMENT
	CBE 20.00% CBE	
	CWF 0.00% Not Applicable	

MANDATORY CLEARING HOUSE: No

CONTRACT MANAGER NAME/PHONE/EMAIL:	Howard J Fallon Jr	786-552-8225	HJFAL01@miamidade.gov
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PROJECT MANAGER NAME/PHONE/EMAIL:	Patty David	786-552-8040	pattyd@miamidade.gov
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Background

BACKGROUND: Pursuant to the Miami-Dade County Interim Consumptive Use Authorization and Agreement with the South Florida Water Management District executed in May 2006, the County has committed to developing alternative water supplies to meet its increased demands from sources other than the Biscayne Aquifer. The development of alternative water supplies must be coordinated with upgrades to the wastewater treatment and disposal system to maximize environmental benefits and minimize fiscal impacts.

This project is to provide planning, design, permitting and construction management services for the Phase One construction of a 30 MGD Water Reclamation Facility at the MDWASD SDWWTP.

**BUDGET APPROVAL
FUNDS AVAILABLE:**



OSBM DIRECTOR

5-30-07
DATE

95

**APPROVED AS TO
LEGAL SUFFICIENCY:**



COUNTY ATTORNEY

5-30-07
DATE

ASSISTANT COUNTY
MANAGER

DATE

CLERK DATE

DATE

Request to Advertise
Design and Construction Management Services for the
South District Wastewater Treatment Plant
Water Reclamation Facility
Project No. E07-WASD-02

**BUDGET PROJECT AND
DESCRIPTION:**

96510240 South District Wastewater Treatment Plant
High Level Disinfection

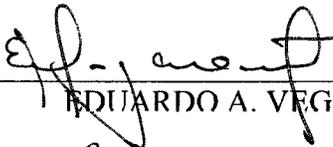
FUNDING SOURCE:

Future WASD Revenue Bonds, WASD Revenue Bonds
Sold, State Revolving Loan Wastewater Program, and
Wastewater Connection Charges

INDEX CODES:

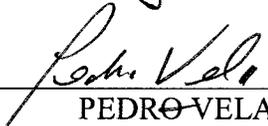
EW641, EW642, EW643, EW644
EW622 and EW623

**ASSISTANT DIRECTOR,
ENGINEERING:**

 5/14/07

EDUARDO A. VEGA, P.E. DATE

DEPT. BUDGET OFFICER

 5/14/07

PEDRO VELAR DATE

**ASSISTANT DIRECTOR,
FINANCE**

 5/14/07

DIANE CAMACHO DATE

**DEPUTY DIRECTOR,
OPERATIONS**

 5/14/07

JOSEPH A. RUIZ, JR. DATE

MIAMI-DADE COUNTY, FLORIDA
NOTICE TO PROFESSIONAL CONSULTANTS

MIAMI-DADE WATER AND SEWER DEPARTMENT
**DESIGN AND CONSTRUCTION MANAGEMENT SERVICES
FOR THE SOUTH DISTRICT WASTEWATER TREATMENT PLANT
WATER RECLAMATION FACILITY
PROJECT NO. E07-WASD-02**

The County Manager, Miami-Dade County, pursuant to Chapter 287.055, Florida Statutes, and Chapter 2, Sections 2-8.1 (as amended Ordinance 05-105) and 2-10.4 of the County Code and Administrative Order 3-39, announces that the Miami-Dade Water and Sewer Department (MDWASD) will require professional engineering services from a qualified consultant to provide planning, design, permitting and construction management services for the implementation of a 30 million gallons per day (MGD) Water Reclamation Facility (Phase 1) at the MDWASD South District Wastewater Treatment Plant (SDWWTP). Flows from this Phase 1 water reclamation facility will be utilized for ground water replenishment. Microfiltration and reverse osmosis treatment will be required. Subsequent phases of the SDWWTP water reclamation program (not included in this project) will expand the flow capacity to approximately 60 MGD with flows utilized for additional groundwater recharge and coastal wetlands re-dehydration projects.

Pursuant to the Interim Consumptive Use Authorization and Agreement with the South Florida Water Management District" executed in May 2006, Miami-Dade County has committed to developing alternative water supplies to meet its increased demands from the Biscayne Aquifer it currently withdraws. The development of alternative water supplies should be coordinated with upgrades to the wastewater treatment and disposal system to maximize environmental benefits and minimize fiscal impacts.

The selected consultant shall perform design and associated work necessary to prepare complete detailed construction drawings and specifications; conceptual design of the delivery systems including pipeline sizing, routing and storage; design of water reclamation pumping station and any on-site storage, detailed cost estimates; attendance at meetings, contract interpretations and clarifications, review claims and potential change order requests; review and process shop drawings, review schedule of values and review as-built drawings, planning for a water reclamation component separate from the High Level Disinfection facility, assist in property acquisition; provide permitting services and bidding and construction management services, answering requests for information, start-up assistance and final inspection; utility coordination, surveying, and geotechnical work; prepare operations and maintenance manuals and provide training for operations and maintenance; provide record drawings documentation; provide transactional system integration and database development through design and construction. Design of water reclamation transmission lines will be by others. Project coordination services are anticipated to include, establishing a plan to implement the project, establish and track project schedule, budget and deadlines, prepare status reports and attend meetings as requested. The total estimated construction cost of the project is \$250 million.

The prime and/or subconsultants are required to have experience with the design and construction management services of least one (1) similar sized facility with advanced treatment within the last five years. The MDWASD intends to retain one qualified firm under a non-exclusive Professional Services Agreement. The term of the contract is for a seven (7) year period. Maximum compensation is \$50 million, 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

- 6.03 Water and Sanitary Sewage Treatment Plants
- 11.00 General Structural Engineering
- 17.00 Engineering Construction Management

Prime and/or Subconsultants

- 9.02 Geotechnical and Materials Engineering Services
- 12.00 General Mechanical Engineering
- 13.00 General Electrical Engineering
- 15.01 Land Surveying
- 16.00 General Civil Engineering

CBE Goal 20%

BREAKDOWN LIST

	<u>%</u>	<u>CBE%</u>
06.03 Water and Sanitary Sewage Treatment Plants	20%	
12.00 General Mechanical Engineering	15%	15%
13.00 General Electrical Engineering	15%	
17.00 Engineering Construction Management	15%	
11.00 General Structural Engineering	15%	
16.00 General Civil Engineering	10%	5%
09.02 Geotechnical and Materials Engineering Services	5%	
15.01 Land Surveying	5%	
TOTAL	100%	20%

STRATEGIC AREA: Neighborhood and Unincorporated Area Municipal Services
DEPARTMENT: Water and Sewer

***** FUNDED PROJECTS *****
(dollars in thousands)

SOUTH DISTRICT WASTEWATER TREATMENT PLANT - HIGH LEVEL DISINFECTION

PROJECT # 96510240

DESCRIPTION: Construct treatment facilities for high level disinfection to meet regulatory requirements

LOCATION: 8950 SW 232 St

Unincorporated Miami-Dade County

DISTRICT LOCATED: 8

ESTIMATED ANNUAL OPERATING IMPACT: Minimal

DISTRICT(S) SERVED: Systemwide

REVENUE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	FUTURE	TOTAL
Wastewater Connection Charges	28,220	3,838	19,883	16,902	11,361	2,570	0	0	82,774
State Revolving Loan Wastewater Program	0	0	0	55,000	45,000	0	0	0	100,000
WASD Revenue Bonds Sold	94,462	0	0	0	0	0	0	0	94,462
Future WASD Revenue Bonds	0	0	0	223,702	0	0	0	4,600	228,302

TOTAL REVENUE:	122,682	3,838	19,883	295,604	56,361	2,570	0	4,600	505,538
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EXPENDITURE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	FUTURE	TOTAL
Planning and Design	1,511	1,685	9,868	18,005	13,553	959	0	419	46,000
Construction	15,091	16,830	98,587	179,870	135,399	9,580	0	4,181	459,538

TOTAL EXPENDITURES:	16,602	18,515	108,455	197,875	148,952	10,539	0	4,600	505,538
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SOUTH DISTRICT WASTEWATER TREATMENT PLANT EXPANSION - PHASE III

PROJECT # 9655481

DESCRIPTION: Expand the South District Wastewater Plant and injection wells; and install emergency generators

LOCATION: 8950 SW 232 St

Unincorporated Miami-Dade County

DISTRICT LOCATED: 8

ESTIMATED ANNUAL OPERATING IMPACT: Minimal

DISTRICT(S) SERVED: Systemwide

REVENUE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	FUTURE	TOTAL
Wastewater Connection Charges	7,000	0	0	1,000	1,000	3,000	2,000	0	14,000
Future WASD Revenue Bonds	0	0	0	0	0	0	60,000	21,000	81,000

TOTAL REVENUE:	7,000	0	0	1,000	1,000	3,000	62,000	21,000	95,000
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EXPENDITURE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	FUTURE	TOTAL
Planning and Design	0	0	0	136	318	637	2,912	4,641	8,644
Construction	0	0	0	1,364	3,182	6,363	29,088	46,359	86,356

TOTAL EXPENDITURES:	0	0	0	1,500	3,500	7,000	32,000	51,000	95,000
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BUDGET PROJECT 96510240

Project Title: 96510240-SOUTH DISTRICT WASTEWATER TREATMENT PLANT - HIGH LEVEL DISINFECTION

Project Desc: Construct treatment facilities for high-level disinfection to meet regulatory requirements

Project \$\$	Start:	End:	Prior:	06-07:	07-08:	08-09:	09-10:	Total:
(\$\$ in 000's)	10/1/2002	9/30/2009	16,602	18,515	108,455	197,875	148,952	505,538

Project Type: Capital

CDPWeb Project Milestones (\$ IN 000'S)

Milestone:	Start:	End:	Prior:	06-07:	07-08:	08-09:	09-10:	Total:
Planning/Design	N/A	N/A	1,511	1,685	9,868	18,005	13,553	46,000
Construction	N/A	N/A	15,091	16,830	98,587	179,870	135,399	459,538

CDPWeb Project Revenue (\$ IN 000'S)

Revenue:	Start:	End:	Prior:	06-07:	07-08:	08-09:	09-10:	Total:
Wastewater Connection	N/A	N/A	28,220	3,838	19,883	16,902	11,361	82,774
State Revolving Loan	N/A	N/A	0	0	0	55,000	45,000	100,000

EXIT

Current Contracts for Project 96510240

Dept	ContractNo	Contract Name	RTA Budget Allocation	Award Budget Allocation	CIIS Award
WS	<u>E07-WASD-02</u>	Design and Construction Manage	\$55,000,000.00	\$0.00	\$0.00
WS	<u>E07-WASD-05</u>	Construction Engineering & Ins	\$6,050,000.00	\$0.00	\$0.00
WS	<u>S-805</u>	South District Wastewater Trea	\$130,000,000.00	\$0.00	\$0.00
WS	<u>S-806</u>	South District Wastewater Trea	\$25,001,000.00	\$0.00	\$0.00
Total Allocated:			\$216,051,000.00	\$0.00	

There are no Sites for Project 96510240



Dept. of Business Development
Project Worksheet

Project/Contract Title: DESIGN AND CONSTRUCTION MANAGEMENT SERVICES FOR THE SOUTH DISTRICT WASTEWATER TREATMENT PLANT WASTEWATER REUSE FACILITY (SIC 871) **RC Date:** 04/11/2007
1-11

Project/Contract No: E07-WASD-02 **Funding Source:** **Item No:**

Department: WATER & SEWER DEPARTMENT **VARIOUS**

Estimated Cost of Project/Bid: \$50,000,000.00 **Resubmittal Date(s):**

Description of Project/Bid: TO ESTABLISH A CONTRACT TO EMPLOY AN ENGINEERING FIRM TO PROVIDE DESIGN AND CONSTRUCTION MANAGEMENT SERVICES FOR THE CONSTRUCTION OF THE SOUTH DISTRICT WASTEWATER TREATMENT PLANT WASTEWATER RESUSE FACILITY. THE SELECTED CONSULTANT SHALL PERFORM DESIGN AND ASSOCIATED WORK NECESSARY TO PREPARE COMPLETE DETAILED CONSTRUCTION DRAWINGS AND SPEIFICATIONS, AND CONCEPTUAL DESIGN OF THE DELIVERY SYSTEMS (AMONGST OTHER FUNCTIONS).

Contract Measures Recommendation		
Measure	Program	Goal Percent
Goal	CBE	20.00%

Reasons for Recommendation

This project meets all the criteria set forth in A.O. 3-32, Section V.

Funding sources: Future WASD Revenue Bonds and Plant Expansion Wastewater Fund

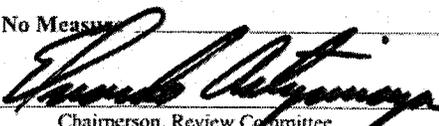
SIC 871 - Architectural and Engineering Services

Analysis for Recommendation of a Goal				
Subtrade	Cat.	Estimated Value	% of Items to Base Bid	Availability
GENERAL MECHANICAL ENGINEERING	CBE	\$7,500,000.00	15.00%	24
GENERAL CIVIL ENGINEERING	CBE	\$2,500,000.00	5.00%	56
Total		\$10,000,000.00	20.00%	

Living Wages: YES NO

Responsible Wages: YES NO

Ordinance 90-143 is applicable to all construction projects over \$100,000 that do not utilize Federal Funds

REVIEW COMMITTEE RECOMMENDATION			
Tier I Set Aside _____	Level 1 _____	Level 2 _____	Level 3 _____
Trade Set Aside (MCC) _____	Goal <u>20%</u>	Bid Preference _____	
No Measure _____	Deferred _____	Selection Factor _____	
 Chairperson, Review Committee	<u>4.11.07</u> Date	County Manager	Date