

Memorandum



Date: August 8, 2024

To: Gary Hartfield, Director
Office of Small Business Development

From: Roy Coley, Director
Miami-Dade Water and Sewer Department *RJ Co*

Subject: Submittal Review Item: General Land and Engineering Surveying and Mapping Services-Project No. E24WS01 (SET-ASIDE) and E24WS02 (GOAL)

The Miami-Dade Water and Sewer Department (WASD) is requesting that the subject projects be reviewed for Small Business Enterprise (SBE) measures for Architectural and Engineering (A/E) professional services, in order to proceed with the advertisement and subsequent consultant selection for this project.

Project No. E24WS01 (SET-ASIDE)

WASD is seeking six (6) A/E Consultants under six (6) separate Professional Services Agreements (PSA) to provide general land and engineering surveying and mapping services. The term for each PSA is five (5) years. The maximum compensation for each PSA is \$500,000, plus ten percent (10%) contingency allowance in accordance with Ordinance No. 00-65.

Project No. E24WS02 (GOAL)

WASD is seeking three (3) A/E Consultants under three (3) separate Professional Services Agreements (PSA) to provide general land and engineering surveying and mapping services. The term for each PSA is five (5) years. The maximum compensation for each PSA is \$2,000,000, plus ten percent (10%) contingency allowance in accordance with Ordinance No. 00-65.

Attached are the WASD's Departmental Input Worksheets and Notice to Professional Consultants for your review and approval. Should you have any questions, please contact Patty Palomo, Chief, Intergovernmental Affairs Section at Patty.Palomo@miamidade.gov or at (786) 552-8040.

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

Contract/Project Title: General Land and Engineering Surveying and Mapping Services

Contract/Project No. E24WS02 (GOAL)

Description: General Land and Engineering Surveying and Mapping Services

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

Estimated Cost: Three (3) contracts, each for two million dollars (\$2,000,000), plus a ten percent (10%) contingency allowance in accordance with Ordinance 00-65.

Funding Sources: Various Funding Sources

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 nd Year 1 st Year	
Contractor _____	_____	_____
Ethnicity/Race _____	_____	_____
Gender _____	_____	_____
Contract Value _____	_____	_____
COMMENTS: _____		

RECOMMENDATIONS

<u>SBE GOAL</u> 15%	<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:	\$ _____	_____
Basis for Recommendation: <u>WASD proposes that the goal can be achieved with SBE firms assisting with 15.01 at 5%, 15.03 at 5%, 15.02 at 2% and 15.04 at 3%.</u>		
By: <u>Roy Coley</u> , Director	Date: <u>8/8/24</u>	Office of Small Business Development Date: _____

**NOTICE TO PROFESSIONAL CONSULTANTS
GENERAL LAND AND ENGINEERING SURVEYING AND MAPPING SERVICES
PROJECT NO. E24WS02 (GOAL)**

Pursuant to the Miami-Dade Water and Sewer Department (WASD) Consent Decree and Capital Improvement Programs Acceleration Ordinance Section 2-8.2.12 of the County Code, Chapter 287.055, Florida Statutes, Sections 2-8.1 and 2-10.4 of the County Code, Implementing Order 3-34, and Administrative Order 3-39, the Miami-Dade County (County) Mayor announces that WASD is seeking three (3) qualified consultants to provide general land and engineering surveying and mapping services.

Scope of Work:

Miami-Dade County has the need to establish three (3) Professional Services Agreements (PSAs) to provide land surveying services for water and sanitary sewer systems, sanitary sewage collection and transmission systems, water and sanitary sewage pumping facilities, water and sanitary sewage treatment plants and any other similar surveying services for related projects. The selected consultants' responsibilities include but are not limited to performing land surveying activities during design, construction, and post-construction phases. The surveying services consultant will facilitate the implementation of the projects being performed by program managers, design consultants, and construction contractor's surveyor, and may include land and hydrographic surveying, underground utility locations, Quality Assurance and Quality Control QA/QC for topographic, as-built surveys, and photogrammetric, laser scanning services for 3D models, and benthic survey services. The work will be assigned as required by WASD for each of the selected firms on a rotation basis as needed. The firms must have the ability to respond within ten (10) days of service requests. Subsequently, the rotation will be based on the amount of assignments held within this respective group. Work assignments will be issued on an as needed basis as determined by WASD.

Preferred Experience and Qualifications

The Prime consultant is preferred to be a full-service surveying and mapping firm. The Prime should demonstrate experience in the following areas listed below:

Land Surveying:

- Performed as built/records, boundary, right-of-way, and topographic surveys. Firms are preferred to have Certified Survey Technician(s) in their team. The Prime should provide five (5) reference projects with three (3) projects in water/wastewater infrastructure.
- Performed 3D laser scanning to a high-definition 3D surveyed surface for visible areas with a high degree of accuracy for interior and exterior visible surfaces. The 3D laser scans should be color enhanced. The 3D laser scans should be clean of noise, external images not part of the facility, i.e. shadows, people, movable objects to the extent possible with point cloud technology available. The 3D laser scanner should include an integrated high-quality digital photo stitched together to provide a complete panoramic "real view" of the scanned area. The Prime firm should provide three (3) reference projects.
- For photogrammetry and Lidar mapping with Unmanned Aerial System (UAS), the firm should identify at least one team member with Remote Pilot Certificate (RPC) issued by the Federal Aviation Administration (FAA) or a pilot certificate issued under Title 14 Code of Federal Regulations part 61 who have completed a flight review within the past 24 months. Must have registered the unmanned aircraft under Small UAS Rule (part 107) and the drone must be label with firm's registration number. Must follow the requirements in the Small UAS rule (Part 107),

following the rules of Section 333 of the FAA Modernization and Reform Act of 2012 grant of exemption, and obtain an airworthiness certificate for the aircraft when is necessary. The Prime should provide three (3) reference projects.

- Ability to prepare descriptions and exhibits for use in legal instruments, tentative plats, waiver of plats, and record plats. The Prime should provide one (1) recorded legal instrument.

Underground Utility Locations:

- Performed Subsurface Utility Engineering in accordance with the American Society of Civil Engineers ASCE CI-38-02. The Prime should have geophysical sensing equipment for identifying, designating, locating, and mapping existing and abandoned utility infrastructure, i.e. magnetic, sonic, and acoustic, ground penetrating radar, radio frequency detection, and vacuum excavation equipment. The Prime should be able to design Maintenance of Traffic plans and obtain permits with different agencies. The Prime should provide five (5) reference projects with two (2) in water/wastewater infrastructure.

Hydrographic Surveys

- The Team should provide five (5) reference projects.

Benthic Surveys

- The Team consultant should include in their team a firm that provides Benthic Survey services.

A/E TECHNICAL CERTIFICATION REQUIREMENTS

Prime

15.01 Surveying and Mapping – Land Surveying

15.03 Surveying and Mapping – Underground Utility Location

Prime/Other

15.02 Surveying and Mapping – Aerial Photogrammetry

15.04 Surveying and Mapping – Hydrographic Surveys

Technical Categories (TC)	Description	TC Percentage (%)	SBE TC Percentage (%)
15.01 PRIME	Surveying and Mapping – Land Surveying	60%	5%
15.03 PRIME	Surveying and Mapping – Underground Utility Location	30%	5%
15.02 Other	Surveying and Mapping – Aerial Photogrammetry	5%	2%
15.04 Other	Surveying and Mapping – Hydrographic Surveys	5%	3%
	TOTAL	100%	15%

WASD intends to retain three (3) qualified consultants under three (3) separate Non-Exclusive Professional Services Agreements (PSA's). The term for each PSA is a five (5) year period.

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

Contract/Project Title: General Land and Engineering Surveying and Mapping Services

Contract/Project No. E24WS01 (SET-ASIDE)

Description: General Land and Engineering Surveying and Mapping Services

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

Estimated Cost: Six (6) contracts, each for five hundred thousand dollars (\$500,000), plus a ten percent (10%) contingency allowance in accordance with Ordinance 00-65.

Funding Sources: Various Funding Sources

ANALYSIS

Commodity/Service No. _____	SIC: _____	
<u>Trade/Commodity/Service Opportunities</u>		
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 2nd Year 1st Year	
Contractor _____	_____	_____
Ethnicity/Race _____	_____	_____
Gender _____	_____	_____
Contract Value _____	_____	_____
COMMENTS: _____		

RECOMMENDATIONS

<u>SBE GOAL</u> 100%	<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:	\$ _____	_____
Basis for Recommendation: <u>WASD proposes a one hundred percent (100%) Set-Aside.</u>		
By: <u>Roy Coley</u> , Director	Date: <u>8/18/24</u>	Office of Small Business Development Date: _____

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PROJECT NO. E24WS01 (SET-ASIDE)**

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Preferred Experience and Qualifications

The Prime consultant submitting for this solicitation should be a full-service surveying and mapping firm. The Prime should demonstrate experience in the following areas listed below:

Land Surveying:

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- Ability to prepare descriptions and exhibits for use in legal instruments, tentative plats, waiver of plats, and record plats. The Prime should provide sample for one (1) recorded legal instrument.

Underground Utility Locations:

- Performed Subsurface Utility Engineering (SUE) in accordance with the American Society of Civil Engineers ASCE CI-38-02. The Prime should have geophysical sensing equipment for identifying, designating, locating, and mapping existing and abandoned utility infrastructure, i.e. magnetic, sonic, and acoustic, ground penetrating radar, radio frequency detection, and vacuum excavation equipment. Those in charge of the work and responsible for certifying deliverables should be engineers and/or land surveyors employed by the selected firm. The Prime should be able to design Maintenance of Traffic plans and obtain permits with different agencies. The firm should provide five (5) reference projects with two (2) in water/wastewater infrastructure.

A/E TECHNICAL CERTIFICATION REQUIREMENTS
Prime

15.01 Surveying and Mapping – Land Surveying

15.03 Surveying and Mapping – Underground Utility Location

Technical Categories (TC)	Description	TC Percentage (%)
15.01 PRIME	Surveying and Mapping – Land Surveying	60%
15.03 PRIME	Surveying and Mapping – Underground Utility Location	40%
	TOTAL	100% SET ASIDE

WASD intends to retain six (6) qualified consultants under six (6) separate Non-Exclusive Professional Services Agreements (PSA's). The term for each PSA is a five (5) year period.