

Date: March 19, 2015

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

From: Alejandro Martinez-Esteve, RA, LEED AP
Manager, Capital Improvements
Public Works and Waste Management Department

Subject: Notice of Consultant Services:
Project No. E15-PWWM-02
Contract No. 20140160
Request to Advertise for Construction Engineering
and Inspection Services & Florida Department of
Transportation Local Agency Program Compliance
Services for PWWM Project No. 20140081:
Tamiami Canal Bridge Replacement, FM #416658-1

RECOMMENDATION

Public Works and Waste Management (PWWM) Capital Improvements is recommending a 9.91% Disadvantaged Business Enterprise (DBE) participation goal as per the Florida Department of Transportation (FDOT) Local Agency Program (LAP) Agreement governing the project referenced below. The base estimated cost for the requested services is \$2,600,000.00.

BACKGROUND

Under the conditions of the LAP Agreement for the Project listed below, Miami-Dade County is required to hire an independent consultant to provide FDOT LAP Compliance Services and laboratory testing for:

- 1) Project No. 20140081: Tamiami Canal Bridge Replacement, FM 416658-1:

The swing bridge that currently spans the Tamiami Canal in the vicinity of NW 30 Avenue and NW South River Drive is one of the oldest bridges in the Miami River System, and is eligible for listing in the National Register of Historic Places. The Project will relocate the bridge to span the C-5 Canal west of NW 22 Avenue between the Miami Police Benevolent Association Park and Fern Isle Park and will install a new concrete bascule bridge once the swing bridge has been relocated. Work also includes relocation of the existing 24-inch water main.

SCOPE OF SERVICES

Construction Engineering and Inspection (CEI), FDOT LAP Compliance, and Laboratory Testing Services (Consultant) including, but not limited to:

- Administering and inspecting all aspects of the Project including roadway, drainage improvements, signing and pavement markings, bridge/roadway lighting, structural mechanical and electrical components, abutments, compliance with the National Register of Historic Places, underwater inspection, and environmental requirements;
- Assisting PWWM's Engineer at the Pre-construction conference;
- Ensuring that the Contractor meets all Contractor Quality Assurance and Control requirements of the Contract Documents including the Contractor's Quality Control Plan (CQCP) and personnel qualification requirements of Article 105 of the FDOT Standard Specifications for Road and Bridge Construction;
- Reviewing and providing the Engineer with comments on the CQCP submitted by the Contractor;
- Identifying potential problems, provide utility coordination, inspection of all stages of the construction/installation, scheduling and cost estimation, claims review, shop drawing review and approval, inspection reporting and documentation, and review punch lists, as-built plans, record drawings and close-out documents;
- Performing daily inspections for all work and preparing and submitting to the County, as requested by FDOT, daily reports of all work occurring during the Construction phase of the Project;
- Administering, monitoring, and inspecting Construction Contract such that the Project is constructed in reasonable conformity with the Plans, Specifications, and all requirements of the Construction Documents;
- Monitoring the Contractor's on-site construction activities and inspecting materials entering into the Work in accordance with the Plans, Specifications, and all requirements of the Construction Documents;

- Participating in weekly progress meetings with County and FDOT representatives and the Contractor, providing a weekly summary of the meetings to Engineer, and following up on all construction related issues until their resolution;
- Performing underwater bridge construction inspections of bridges with permanently submerged structural members;
- Observing the Contractor's work to determine the progress and quality of work. Identifying discrepancies and reporting them to the Engineer, and directing the Contractor, with the Engineer's concurrence, to correct such observed discrepancies;
- Providing a final certification that the Work was done in accordance with all of the pertinent Codes, Plans, Specifications and all other Contract requirements of the Project. This certification is in addition to the final certification that must be provided by Contractor;
- Providing services that comply with FDOT manuals, procedures, and memoranda in effect as of the date of execution of the Agreement unless otherwise directed in writing. Such FDOT manuals, procedures, and memorandums are found at the FDOT State Construction Office's website;
- Verifying that the contractor is in compliance with the requirements of the FDOT Laboratory Information Management System (LIMS), confirming that the materials, samples and records are accurate;
- Monitoring the Contractor and Subcontractor's performance for compliance with all requirements of the Equal Employment Opportunity (EEO), Affirmative Action (AA), Disadvantage Business Enterprise (DBE), On-the-Job Training (OJT) and federal Wage Rate Provisions required by the FHWA 1273 Required Contract Provisions Federal-Aid Construction Contracts and applicable Florida Statutes;
- Meeting with FDOT designee in order to respond to construction and post construction audits;
- Providing Concrete and Asphalt Testing Services
- Providing Non-Destructive Testing and Inspections

QUALIFICATIONS:

1. Certification:

- a. Miami Dade County Technical Certification Category 17.00
- b. Miami Dade County Technical Certification Category 3.03
- c. Miami Dade County Technical Certification Category 3.12
- d. Miami Dade County Technical Certification Category 9.02
- e. Miami Dade County Technical Certification Category 9.03
- f. Miami Dade County Technical Certification Category 9.04
- g. Miami Dade County Technical Certification Category 12.00
- h. Miami Dade County Technical Certification Category 13.00

2. Experience:

- a. Minimum 10 years of experience with the construction of bascule bridges.
- b. Minimum 5 years of experience with bridge related projects which involve the Historical Preservation Board.
- c. Minimum 5 years of experience with compliance of federally funded projects including knowledge of FDOT State Materials Office, Laboratory Information Management System (LIMS).
- d. Completion of LAP Training provided by FDOT

CEI & FDOT LAP Consultant Selection: Technical Certification Categories:

	CEI & FDOT LAP Services for the Tamiami Canal Bridge Replacement, FM #416658-1. Miami-Dade County		
17.00	Engineering Construction Management (PRIME)	46.1%	\$1,200,000.00
3.03	Highway Systems – Bridge Design	5.8%	\$150,000.00
3.12	Highway Systems – Underwater Engineering Inspection	6.9%	\$180,000.00
9.02	Soils, Foundations and Materials Testing – Geotechnical and Materials Engineering Services	7.7%	\$200,000.00
9.03	Soils, Foundations and Materials Testing – Concrete and Asphalt Testing Services	7.7%	\$200,000.00
9.04	Soils, Foundations and Materials Testing – Non-Destructive Testing and Inspections	7.7%	\$200,000.00
12.00	General Mechanical Engineering	9.6%	\$250,000.00
13.00	General Electrical Engineering	8.5%	\$220,000.00
		100%	\$2,600,000.00

Recommended DBE Participation: 9.91%

If any additional information is needed, please call me at (305) 375-2097, or James Ferreira at (305) 375-3267.

AM/jpf

C: Laurie Johnson, ISD/SBD
Alice Hidalgo-Gato, ISD/SBD
Javier Heredia, P.E., PWWM
Bassam Moubayed, PWWM
Marcos Redondo, P.E., PWWM
Dianah Coakley, PWWM

Gaspar Miranda, P.E., PWWM
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