

**Date:** October 17, 2019

# Memorandum



**To:** Gary Hartfield, Director  
Small Business Development Division

**From:** Joanne Menoher Case, Manager PROS Contracts Administration  
Parks, Recreation and Open Spaces Department

A handwritten signature in blue ink that reads "Joanne Menoher Case". The signature is written in a cursive, flowing style.

**Subject:** Notice of Professional Services – Goal Memo  
Request to Advertise for Parks, Recreation and Open Spaces (PROS) Professional Services Agreement (PSA) for Rickenbacker Causeway Bond Engineering Services, located within Commission District 7. Project No: E19-PROS-02

The Parks, Recreation and Open Spaces Department (PROS) is recommending a 16.00% Small Business Enterprise (SBE) participation goal. The cost for the Rickenbacker Causeway Bond Engineering Services, non-exclusive Professional Services Agreement (PSA) is for a maximum compensation of two millions two hundred thousand dollars (\$2,200,000), for an effective term of five (5) years after its date of execution or until completion of all project phases, whichever occurs last, unless terminated by mutual consent of parties hereto.

## **BACKGROUND**

The Rickenbacker Causeway consists of approximately 1.2 miles of bridge structures – the West Bridge, the William Powell Bridge, and the Bear Cut Bridge and approximately 2.4 miles of roadway built on dredged fill with a toll facility at the western terminus. It has been operated as a toll road since its original opening in 1947 and is currently a one-way tolling facility. In 2015 the Causeways, identified essentially as linear parks that serve as greenways connecting our community were transferred to PROS who operates over 260 parks and manages over 12,000 acres of land.

## **PROJECT DESCRIPTION**

Miami-Dade County Parks, Recreation and Open Spaces Department (PROS) has the need to establish one (1) non-exclusive Professional Services Agreement (PSA) to provide professional bond engineering services from one (1) qualified consultant to fulfill and perform the duties of a bond consultant as set forth in Bond Ordinance No. 13-110, Sections 208, 405, 510, 702, 704, and 712. The services of a bond engineer (Engineer) are required as part of each bond agreement and associated financing documents.

Perform Management Financial Consulting Services and review of the Rickenbacker Causeway's financial transactions and abilities, engineering decisions, and future plans.

- Review annual inspection reports (2019) of all the Rickenbacker Causeway facilities as identified in Exhibit A.
- The Consulting Engineer shall prepare, when requested by the Department, the certificate required in Section 208 (a) (i) of Bond Ordinance No.13-110 in accordance with the requirements of such subsection (a); and the (ii) report described in Section 501 of said Bond Ordinance.
- Make recommendations for remedial action, if warranted, after each inspection of the Rickenbacker Causeway facilities identified in Exhibit A.
- Perform annual inspections of the physical conditions of the Rickenbacker Causeway facilities, and prepare separate reports of the physical condition of the roadway, bridges and toll facilities to include the following:

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- Conduct a detailed mile-by-mile visual inspection of the roadway, bridges, sidewalks, shoreline and public access beaches, drainage structures and all appurtenances thereto such as lighting, signage, pavement striping, and marking, entry and exit gates, toll plaza structures, buildings, public restrooms, and toll equipment. As a part of this inspection, photographs will be taken of problem areas that need continuous monitoring and/or corrective action.
  - Conduct, at minimum, a yearly structural inspection of bridges and submit the completed Engineer's inspection forms to PROS along with the annual report that will summarize the Engineer's opinion concerning the conditions of the facilities.
  - Inspect structures located within the Rickenbacker Causeway inventory (Exhibit A) in compliance with federal regulations such as the National Bridge Inspection Standards, Code of Federal Regulations (CFR), Title 23, Part 650, Subpart C; Title XXVI, Section 335.074, Florida Statutes; State of Florida Department of Transportation Rules Chapter 14-48.0011, F.A.C., Inspection Bridges; and OSHA 29 CFR, Part 1926, Subpart C.
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- Review the latest available bridge inspection reports prepared by the Florida Department of Transportation (FDOT) and any other agency.
  - Generate recommendations, approvals, and/or certifications as required in the Bond Ordinance.
  - Conduct annual Traffic and Revenue Study.
  - Review and analyze, on a continuing basis, PROS's monthly traffic revenue and expense statements for the Rickenbacker Causeway toll facility, as well as other traffic reports, information and data furnished by PROS.
  - Prepare and submit to PROS bi-yearly report of the traffic, operation and revenue aspects of the Rickenbacker Causeway toll facility; the reports shall compare the results of the current year's operation with the previous year's operation, as well as the forecasts contained in the Official Statement of Series 2013 Bonds or successors for the toll facility.
  - Conduct a detailed annual inspection of beach erosion on the improved beaches within the public right of way on Hobie Island and Virginia Key and provide recommendations for corrective actions.
  - Provide expert testimony in judicial or quasi-judicial proceedings regarding toll revenues and existing or proposed revenue producing facilities.
  - Make recommendations for advisable revisions or modifications and determination of the amount that shall be deposited on an annual basis into the Renewal, Replacement, and Improvement Fund in accordance to Section 704 of the Bond Ordinance for inclusion in the Annual Budget.
  - Make recommendations on the amount of insurance that PROS should carry to cover replacement costs arising from damage to or destruction of part or all of the transportation facilities as defined by the Resolution in accordance with Section 706 of the Bond Ordinance and subsequent supplemental resolutions, comprehensive public liability insurance covering bodily injury and property damage, and any other coverage that PROS may deem necessary.
  - Prepare a Consulting Engineer's Report setting forth the findings by review of reports and site observations that the Rickenbacker Causeway has been maintained in good repair and working order, as well as provide advice on proper maintenance and operation.
  - Attend meetings with PROS staff, the Miami Dade County Bridge Engineer, consulting engineers, officials of the Bond Finance Committee or any other person(s) as deemed necessary by PROS upon request.

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- Provide general engineering support for the Rickenbacker Causeway as needed, including, but not limited to, future bond feasibility report services, origin and destination studies, traffic surveys, financial feasibility study, and toll rate structure study.

The selected consultant will report directly to PROS Project Manager along with the Miami Dade County Bridge Engineer.

The selected Team (Prime and Sub-Consultants) will not be eligible for award of any Construction, CEI, or work related to specific service work order.

## **TECHNICAL CERTIFICATION CATEGORIES Miami-Dade County Certification**

PRIME	CODE	DESCRIPTION	%	EST \$ AMOUNT
	3.02	Highway Design	20%	\$400,000.00
	3.04	Traffic Engineering Studies	15%	\$300,000.00
SUB	CODE	DESCRIPTION	%	EST. \$ AMOUNT
	3.03	Highway Systems - Bridge Design	30%	\$600,000.00
	3.05	Highway Systems - Traffic Counts	4%	\$80,000.00
	3.07	Highway Systems - Traffic Signal Timing	4%	\$80,000.00
	3.09	Highway Systems - Signing, Pavement Marking, and Channelization	3%	\$60,000.00
	3.10	Highway Systems - Lighting	4%	\$80,000.00
	3.11	Highway Systems - Signalization	3%	\$60,000.00
	3.12	Highway Systems - Underwater Engineering Inspections	5%	\$100,000.00
	9.02	Soils, Foundations and Materials Testing - Geotechnical and Materials Engineering Services	1%	\$20,000.00
	10.10	Environmental Engineering - Coastal Processes and Ocean Engineering	5%	\$100,000.00
	11.00	General Structural Engineering	2%	\$40,000.00
	12.00	General Mechanical Engineering	1%	\$20,000.00
	13.00	General Electrical Engineering	1%	\$20,000.00
	14.00	Architecture	2%	\$40,000.00
		TOTAL	100%	\$2,000,000.00

## **EXPERIENCE AND QUALIFICATIONS**

The Prime Consultant must hold technical certifications 3.02 and 3.04 and hold active professional registration status as required by the State of Florida.

Prime Consultant, through full time-personnel, must demonstrate a preferred minimum of five (5) years of experience as the prime consultant on similar projects with project scopes that are comparable to the Project Scope of Services for this project. A preferred minimum of three (3) of these projects must have been completed within the last ten (10) years. The Prime and/or sub-

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consultants must demonstrate a preferred minimum of five (5) Traffic and Revenue Studies completed for a comparable toll road with revenues in excess of \$10M annually within the last ten (10) years from the date of this solicitation.

The expertise must be met by a qualified individual(s) of the prime and/or sub-consultant firm(s), as applicable. The experience must be demonstrated by direct or substantial involvement of the individual(s) in a supervisory capacity at the Project Manager level or above. The determination of the individual's qualifications and compliance with the experience and qualifications and preference stipulations shall be at the sole discretion of the County.

**Recommended SBE Participation: 16.00%**

**EXHIBIT A**  
**Public Works and Waste Management Department**  
**Rickenbacker Causeway Structure Inventory**

**Rickenbacker Toll Plaza**

Administration Building  
2601 Brickell Avenue, Miami Florida – 33129  
Built 1985  
Toll Plaza  
Toll collection equipment

**West bridge # 874541(Eastbound) and # 874542 (Westbound)**

874541 North portion built 1944. Rehabilitated 2014.  
874541 South portion widened 1985.  
874542 Built 1985.

**William Powell Bridge # 874545**

Built 1985.

**Bear Cut Bridge # 874544**

North portion built 1944. Rehabilitated 2014  
South portion widened 1985.

**East Fishing Pier (old bay bridge) # 874543**

(under water soundings)  
(fender system & lighting)

**Maintenance Operations Building**

4299 Rickenbacker Causeway, Key Biscayne Florida – 33149  
Built 1954

**Comfort Station #1 (Hobie Island)**  
**Comfort Station #2 (Virginia Key Beach south side)**  
**Comfort Station #3 (Bear Cut Bridge)**

Roadway Pavement and Markings  
Regulation Buoy Line System (36 buoys)  
Drainage  
Guardrail  
Beach Access Gates  
Concession Site Pads  
Streetlights  
Digital Speed Signs  
Regulation Signage  
Multi-Use Pedestrian Pathways  
Parking Lots  
Beach Sand and Dunes  
Landscape