

Memorandum



Date: January 30, 2020

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

From: Sylvia Novela, Strategic Procurement Director
Miami-Dade Aviation Department
Contracts Administration Division

Subject: MIA Terminal Wide Re-Roofing and Lightning System Upgrades
ISD Project No. A19-MDAD-01

S. Novela

A project was previously submitted to SBD under the project name: MIA NTD/CTD Terminal Roofing and Lightning System Upgrades with ISD Project No. A18-MDAD-02 and a SBD Worksheet (copy attached) was received. We are re-submitting with a new project name, project number and updated information provided below.

At this time, we are requesting that this project be reviewed for contract measures. Please contact Juan Paan or Tyrone Browne should you have any technical questions associated with this project.

Project: MIA Terminal Wide Re-Roofing and Lightning System Upgrades

ISD Project No.: A19-MDAD-01

Project Description: See attached Consultant Selection Request and Project Description

Term of the Agreement: Seven (7) years

Contract Estimated Amount: \$12,906,464 (Base Estimate)

Funding Source: Future Aviation Financing

Technical Certification Category Prime:

- 4.02 Aviation Systems – Architectural Design (5%)
- 14.00 Architecture (30%)

Sub-consultants:

- 4.01 Aviation Systems – Engineering Design (5%)
- 9.05 Soils, Foundations and Materials Testing – Roof testing and Consulting (30%)

- Sub-consultants:**
- 4.01 Aviation Systems – Engineering Design (5%)
 - 9.05 Soils, Foundations and Materials Testing – Roof testing and Consulting (30%)
 - 10.01 Environmental Engineering – Stormwater Drainage Design Engineering Services (5%)

 - 11.00 General Structural Engineering (5%)
 - 12.00 General Mechanical Engineering (5%)
 - 13.00 General Electrical Engineering (5%)
 - 16.00 General Civil Engineering (5%)
 - 18.00 Architectural Construction Management (5%)

**Recommended SBE
A/E and G/S**

Measures: SBE A//E goal- **30%**; SBE G/S goal - **2%** – Commodity Code 61500 - Office Supplies, General; 34500 - Safety Supplies (First Aid & Safety Equipment & Supplies); and 90504 Aerial Photogrammetry

**Project Preferred
Experience:**

Refer to the Project Description (attached)
It is highly preferred for the Prime to have at least one staff member with one of the following Roof Registered Waterproofing Consultant (RWC) certifications by the Roof Consultants Institute (RCI):

1. Registered Roof Consultant (RRC) certification.
2. Registered Waterproofing Consultant (RWC) – individual certification.
3. Registered Exterior Wall Consultant (REWC) – individual certification.
4. Registered Building Envelope Consultant (RBEC) – acquired by having the above three certifications.

Please advise if additional information is needed to complete this request.

Your assistance with this matter is appreciated.

Attachments: Consultant Selection Request and Project Description
SBD Worksheet for A18-MDAD-02

c: Laurie Johnson, ISD/SBD
Ralph Cutie, MDAD
Juan Paan, MDAD
Tyrone Browne, MDAD



Small Business Development Division

Project Worksheet

Project/Contract Title: MIA NTD/CTD Terminal Roofing and Lighting Systems Upgrades
Received Date: 10/11/2018
Project/Contract No: A18-MDAD-02
Funding Source: Reserve Maintenance
Department: Aviation
Estimated Cost of Project/Bid: \$6,934,601.00
Description of Project/Bid: MIA NTD/CTD TERMINAL ROOFING AND LIGHTING SYSTEM UPGRADES

Contract Measures		
Measure	Program	Goal Percent
Goal	SBE - A&E	30.00%
Goal	SBE - Services	2.00%

Reasons for Recommendation
<p>SMALL BUSINESS ENTERPRISE - ARCHITECTURAL & ENGINEERING (SBE-A&E) An analysis of the factors contained in the project package, as well as the factors contained in Section V. C. of Implementing Order 3-32 indicates a 30.00% SBE-A&E goal is appropriate for this contract in the following Technical Categories: 4.01 Engineering Design at 5.00%; 10.01 Storm water Drainage Design Engineering Services at 5.00%; 11.00 General Structural Engineering at 5.00%; 12.00 General Mechanical Engineering at 5.00%; 13.00 General Electrical Engineering at 5.00% and 16.00 General Civil Engineering at 5.00%.</p> <p>SMALL BUSINESS ENTERPRISE - SERVICES (SBE-S) An analysis of the factors contained in section VIII. B. of Implementing Order 3-41 & Ordinance 14-41 indicates that a 2.00% is appropriate for the services portion of this contract in; Aerial Photography and Videography Services, Including Drones and Printing and Typesetting Services.</p> <p>The project estimated cost amount is \$6,934,601.00, the total suggested SBE-A&E is \$2,080,380.00 (30.00%) of the total project estimated cost. The term of agreement will be for six (6) years.</p> <p>NIGP 90505 Aerial Photography and Videography Services, Including Drones, NIGP 96600 PRINTING AND TYPESETTING SERVICES, MDC-TCC 11 GENERAL STRUCTURAL ENGINEERING, MDC-TCC 12 GENERAL MECHANICAL ENGINEERING, MDC-TCC 13 GENERAL ELECTRICAL ENGINEERING, MDC-TCC 14 ARCHITECTURE, MDC-TCC 18 ARCHITECTURAL CONSTRUCTION MANAGEMENT, MDC-TCC 04-01 ENGINEERING DESIGN, MDC-TCC 04-02 ARCHITECTURAL DESIGN, MDC-TCC 09-05 ROOF TESTING AND CONSULTING, MDC-TCC 10-01 STORMWATER DRAINAGE DESIGN ENGINEERING SERVICES, MDC-TCC 16 GENERAL CIVIL ENGINEERING</p>

Small Business Contract Measure Recommendation

<u>Subtrade</u>	<u>Category</u>
Engineering Design	SBE - A&E
Stormwater Drainage Design Engineering Services	SBE - A&E
General Structural Engineering	SBE - A&E
General Mechanical Engineering	SBE - A&E
General Electrical Engineering	SBE - A&E
General Civil Engineering	SBE - A&E
Printing and Typesetting Services	SBE - Services
Aerial Photography and Videography Services, Including Drones	SBE - Services

Living Wages: YES NO Highway: YES NO Heavy Construction: YES NO
Responsible Wages: YES NO Building: YES NO



County Mayor



Date



CONSULTANT SELECTION REQUEST

PROJECT NAME: MIA Terminal Wide Re-Roofing and Lightning System Upgrades PROJECT No: AA-078A CIP No: _____

REQUESTING DIVISION: Facilities Management, Planning, Engineering and Construction DATE 05/28/2019

FACILITIES PLANNER: _____ PROJECT MANAGER: Tyrone Browne

PROJECT DESCRIPTION (attach additional sheets providing detailed project description as necessary):

See Attached project Description

FUNDING SOURCE: Revenue Bonds BUDGET CODE: EA502

ANTICIPATED CONSULTANT SERVICES ARE INDICATED ON PAGE 2.

<u>ESTIMATED COST</u>		
Design Cost	<u>\$ 12,906,464</u>	(includes. Const. Admin., Const. Inspec.Srvcs.)
Construction Cost	<u>\$ 92,189,026</u>	Number of Agreements and Amount per Agreement:
Art Allowance	<u>\$ 0</u>	No. <u>1</u> X <u>\$12,906,464</u>
Other (Specify – e.g., Permitting, HNTB, and any other soft costs)		TOTAL <u>\$12,906,464</u>
Construction Support	<u>\$ 1,843,781</u>	
Indirect Costs	<u>\$ 12,832,712</u>	Term of Agreement: <u>7 Years</u>
	<u>\$</u>	
TOTAL	<u>\$ 119,771,983</u>	

TOTAL DOLLARS INDICATED ABOVE ARE IN THE CAPITAL PROJECT FACT SHEET BUDGET YES NO

IF "NO" IS CHECKED, PLEASE EXPLAIN:

	APPROVAL	PRINT NAME	DATE
MDAD Project Manager		Tyrone D. Browne	<u>1.21.20</u>
MDAD Division Chief		Lydia M. Salas	<u>1/21/2020</u>
MDAD Division Director		Ana M. Finol	<u>1/21/20</u>
MDAD Assistant Director		Ralph Cutié	<u>1/21/20</u>



CAT. NO.	SERVICE DESCRIPTION *	PRIME CONSULTANT	SUB-CONSULTANT	PERCENT OF TOTAL CONSULTANT FEE
1.00	TRANSPORTATION PLANNING			
	1.01 URBAN AREA AND REGIONAL TRANSPORTATION PLANNING			
	1.02 MASS AND RAPID TRANSIT PLANNING			
	1.04 PORT AND WATERWAY SYSTEMS PLANNING			
2.00	MASS TRANSIT SYSTEMS			
	2.01 MASS TRANSIT PROGRAM (SYSTEMS) MANAGEMENT			
	2.02 MASS TRANSIT FEASIBILITY & TECHNICAL STUDIES			
	2.03 MASS TRANSIT VEHICLE STUDIES & PROPULSION STUDIES			
	2.04 MASS TRANSIT CONTROLS, COMMUNICATIONS, & INFORMATION SYSTEMS			
	2.05 GENERAL QUALITY ENGINEERING			
	2.06 MASS TRANSIT SAFETY CERTIFICATION FOR SYSTEM ELEMENTS			
3.00	HIGHWAY SYSTEMS			
	3.01 SITE DEVELOPMENT AND PARKING LOT DESIGN			
	3.02 MAJOR HIGHWAY DESIGN			
	3.02A TUNNEL DESIGN			
	3.02B MINOR HIGHWAY DESIGN			
	3.03 BRIDGE DESIGN			
	3.04 TRAFFIC ENGINEERING STUDIES			
	3.05 TRAFFIC COUNTS			
	3.06 TRAFFIC CALMING			
	3.07 TRAFFIC SIGNAL TIMING			
	3.08 INTELLIGENT TRANSPORTATION SYSTEMS ANALYSIS, DESIGN, AND IMPLEMENTATION			
	3.09 SIGNING, PAVEMENT MARKING, AND CHANNELIZATION			
	3.10 LIGHTING			
	3.11 SIGNALIZATION			
	3.12 UNDERWATER ENGINEERING INSPECTION			
4.00	AVIATION SYSTEMS			
	4.01 ENGINEERING DESIGN		5%	
	4.02 ARCHITECTURAL DESIGN	5%		



5.00	PORT AND WATERWAY SYSTEMS			
	5.01 ENGINEERING DESIGN			
	5.02 ARCHITECTURAL DESIGN			
	5.03 CRUISE TERMINAL DESIGN			
	5.04 CRUISE TERMINAL EQUIPMENT DESIGN			
	5.05 CARGO TERMINAL DESIGN			
	5.06 CARGO TERMINAL EQUIPMENT DESIGN			
	5.07 SECURITY SYSTEMS			
	5.08 MARINE ENGINEERING DESIGN			
	5.09 ENVIRONMENTAL DESIGN			
	5.10 TRANSPORTATION SYSTEMS DESIGN			
6.00	WATER AND SANITARY SEWER SYSTEMS			
	6.01 WATER DISTRIBUTION AND SANITARY SEWAGE COLLECTION AND TRANSMISSION SYSTEMS			
	6.01(A) UTILITY TUNNELING FOR WATER DISTRIBUTION AND SANITARY SEWAGE COLLECTION AND TRANSMISSIONS SYSTEMS			
	6.02 WATER AND SANITARY SEWAGE PUMPING FACILITIES			
	6.03 WATER AND SANITARY SEWAGE TREATMENT PLANTS			
7.00	SOLID WASTE COLLECTION AND DISPOSAL SYSTEMS			
8.00	TELECOMMUNICATION SYSTEMS			
9.00	SOILS, FOUNDATIONS AND MATERIALS TESTING			
	9.01 DRILLING, SUBSURFACE INVESTIGATION AND SEISMOGRAPHIC SERVICES			
	9.02 GEOTECHNICAL AND MATERIALS ENGINEERING SERVICES			
	9.03 CONCRETE AND ASPHALT TESTING SERVICES			
	9.04 NON-DESTRUCTIVE TESTING AND INSPECTIONS			
	9.05 ROOF TESTING AND CONSULTING		30%	
	9.06 ASBESTOS			
	9.07 AMBIENT AIR			
	9.08 BIO-HAZARDOUS			
	9.09 OSHA			



10.00	ENVIRONMENTAL ENGINEERING			
	10.01 STORMWATER DRAINAGE DESIGN ENGINEERING SERVICES		5%	
	10.02 GEOLOGY SERVICES			
	10.03 BIOLOGY SERVICES			
	10.04 CHEMISTRY SERVICES			
	10.05 CONTAMINATION ASSESSMENT AND MONITORING			
	10.06 REMEDIAL ACTION PLAN DESIGN			
	10.07 REMEDIAL ACTION PLAN IMPLEMENTATION/OPERATION/MAINTENANCE			
	10.08 PATHOGEN AND CONTAMINANT RISK ANALYSIS			
	10.09 WELLFIELD, GROUNDWATER, AND SURFACE WATER PROTECTION AND MANAGEMENT			
	10.10 COASTAL PROCESSES AND OCEAN ENGINEERING			
11.00	GENERAL STRUCTURAL ENGINEERING		5%	
12.00	GENERAL MECHANICAL ENGINEERING		5%	
13.00	GENERAL ELECTRICAL ENGINEERING		5%	
14.00	ARCHITECTURE	30%		
15.00	SURVEYING AND MAPPING			
	15.01 LAND SURVEYING			
	15.02 AERIAL PHOTOGRAMMETRY			
	15.03 UNDERGROUND UTILITY LOCATION			
	15.04 HYDROGRAPHIC SURVEYS			
16.00	GENERAL CIVIL ENGINEERING		5%	
17.00	ENGINEERING CONSTRUCTION MANAGEMENT			
18.00	ARCHITECTURAL CONSTRUCTION MANAGEMENT		5%	
19.00	VALUE ANALYSIS AND LIFE-CYCLE COSTING			
	19.01 TRANSPORTATION PLANNING			
	19.01(A) TRANSPORTATION PLANNING-LIFE CYCLE COSTING SERVICES			
	19.02 MASS TRANSIT SYSTEMS			
	19.02(A) MASS TRANSIT SYSTEMS-LIFE CYCLE COSTING SERVICES			
	19.03 HIGHWAY SYSTEMS			
	19.03(A) HIGHWAY SYSTEMS-LIFE CYCLE COSTING SERVICES			



	19.04 AVIATION SYSTEMS			
	19.04(A) AVIATION SYSTEMS-LIFE CYCLE COSTING SERVICES			
	19.05 PORT AND WATERWAY SYSTEMS			
	19.05(A) PORT AND WATERWAY SYSTEMS-LIFE CYCLE COSTING SERVICES			
	19.06 WATER AND SANITARY SYSTEMS			
	19.06(A) WATER AND SANITARY SYSTEMS-LIFE CYCLE COSTING SERVICES			
	19.07 SOLID WASTE COLLECTION AND DISPOSAL SYSTEMS			
	19.07(A) SOLID WASTE COLLECTION AND DISPOSAL SYSTEMS-LIFE CYCLE COSTING SERVICES			
	19.08 TELECOMMUNICATION SYSTEMS			
	19.08(A) TELECOMMUNICATION SYSTEMS-LIFE CYCLE COSTING SERVICES			
	19.09 SOILS, FOUNDATIONS, AND MATERIALS TESTING			
	19.09(A) SOILS, FOUNDATIONS, AND MATERIALS TESTING-LIFE CYCLE COSTING SERVICES			
	19.10 ENVIRONMENTAL ENGINEERING			
	19.10(A) ENVIRONMENTAL ENGINEERING-LIFE CYCLE COSTING SERVICES			
	19.11 GENERAL STRUCTURAL ENGINEERING			
	19.11(A) GENERAL STRUCTURAL ENGINEERING-LIFE CYCLE COSTING SERVICES			
	19.12 GENERAL MECHANICAL ENGINEERING			
	19.12(A) GENERAL MECHANICAL ENGINEERING-LIFE CYCLE COSTING SERVICES			
	19.13 GENERAL ELECTRICAL ENGINEERING			
	19.13(A) GENERAL ELECTRICAL ENGINEERING-LIFE CYCLE COSTING SERVICES			
	19.14 ARCHITECTURE			
	19.14(A) ARCHITECTURE-LIFE CYCLE COSTING SERVICES			
	19.16 GENERAL CIVIL ENGINEERING			
	19.16(A) GENERAL CIVIL ENGINEERING-LIFE CYCLE COSTING SERVICES			
	19.20 LANDSCAPE ARCHITECTURE			
	19.20(A) LANDSCAPE ARCHITECTURE-LIFE CYCLE COSTING SERVICES			
20.00	LANDSCAPE ARCHITECTURE			
21.00	LAND USE PLANNING			
22.00	ADA TITLE II CONSULTANT			



23.00	AVIATION ACOUSTICAL AND LAND USE COMPATIBILITY PLANNING			
24.00	BUILDING PRODUCT EVALUATION SERVICES			
	24.01 PANEL WALLS			
	24.02 EXTERIOR DOORS			
	24.03 ROOFING PRODUCTS			
	24.04 SKYLIGHTS			
	24.05 WINDOWS			
	24.06 SHUTTERS			
	24.07 STRUCTURAL COMPONENTS			
25.00	AVIATION PLANNING CONSULTANT SERVICES			
26.00	CLAIMS ANALYSIS SERVICES			

*Detailed descriptions of certification categories may be obtained from MDAD Contracts Administration.

MIA Terminal Wide Re-roofing and Lightning Systems Upgrades

Project Description

The scope of Services includes professional architectural and engineering services to provide the following services which will enable Miami-Dade Aviation Department (MDAD) to obtain a roof replacement for North, Central and South Terminal Areas. The age of the roofs range from between 9-12 years and the roofs do not have any remaining warranty, thus a permanent solution is necessary to ensure the operational readiness of the terminal areas and their functional passenger service areas. The Consultant's scope includes architectural and engineering services to enable Miami-Dade Aviation Department (MDAD) to obtain a complete roof replacement and lightning protection system of the North, Central and South Terminal Areas. The roof replacement and lightning protection system shall include, but not limited to, digital mapping and BIM services, roof demolition, temporary roofing, SBS modified bitumen membrane roofing system per MDAD Design Guidance Manual (DGM), flashing and coping replacement, raising conduits and structures, MEP upgrades, lightning protection, exterior penthouse and building finishes affected by the existing foam roofing application, and other work identified by MDAD Project Management. Services include, but not limited to, surveying, scan to BIM services, preparation of detailed plans and specifications, construction documents, project segment specific contractor access and staging plans, maintenance of traffic (MOT) plans, phasing and/or sequence plans as may apply, preparation of schedules, construction administration, testing, moisture testing, infrared scanning and work site services. The Consultant shall prepare an estimate of probable construction costs and update, as required at various stages and shall review the applicable codes and obtain documents confirming product approval for specified products and systems.

It is highly preferred for the Prime to have at least one staff member that has one of the following Roof Registered Waterproofing Consultant (RWC) certifications by RCI.

1. Registered Roof Consultant (RRC) certification.
2. Registered Waterproofing Consultant (RWC) – individual certification.
3. Registered Exterior Wall Consultant (REWC) – individual Certification.
4. Registered Building Envelope Consultant (RBEC) – acquired by having the above three certifications.

The project involves the phased (four phases) tear-off (demolition) of the existing fully adhered multiple layers of Spray Polyurethane Foam (SPF) roofing system at Roof Decks "A-X" (comprising the North, Central and South Terminal areas – approximately 430,000 square feet) with MDAD Roofing System of choice SBS Modified Bitumen Membrane roofing in accordance with MDAD's Terminal Design Guidelines Manual with all necessary flashing, drainage, insulation, lightning protection, recertification of the lightning protection system, painting, stucco repairs, door replacements, and pipe

supports required to complete the work and guarantee the roof for a 20 year warranty No Dollar Limit (NDL) from project acceptance.