


DESIGN

Memorandum 

Date: July 11, 2014

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

From: 
James Ferreira, P.E.
Engineer 2
Public Works and Waste
Management Department

Subject: Notice of Design-Build Services:
PWWM Project No. 20140063
Project No. DB14-PWWM-01
Request for Proposals (RFP) for Design-Build
Services for the Venetian Causeway Bridge
Rehabilitation, Bridge No. 874459
DESIGN & CONSTRUCTION

RECOMMENDATION

It is recommended that Small Business Development (SBD) review and approve the attached Community Small Business Enterprise (CSBE) contract measure for **Project No. DB14-PWWM-01, RFP for DESIGN-BUILD services for the Venetian Cswy Bridge Rehabilitation, Bridge No. 874459**. Contracts and Specifications staff has evaluated the subject project and recommends a CSBE Sub-contractor **Trade Set Aside for Traffic Stripes and Markings: Painted and/or Thermoplastic** based on the project scope and applicable requirements of the RFP. The Venetian Causeway Bridge Rehabilitation was declared an emergency project in Resolution 468-14. Due to an accelerated design, permitting, and construction schedule, a cost estimate that places increased risk and burden on proposers, the historical nature of the bridge (federally historical designation), and the complexity of the project, PWWM does not recommend a CBE Sub-consultant goal neither a SBE measure for this project. The cost estimate for this RFP is approximately **\$7,670,318.00**. Please find attached the PWWM Project Measure Analysis and Recommendation findings along with other supporting documents for your consideration.

SCOPE OF WORK

Miami-Dade County Public Works and Waste Management has the need to establish a RFP for DESIGN-BUILD Services to perform all Work needed for the Venetian Causeway Bridge Rehabilitation as stated on the attached PWWM Project Measure Analysis and Recommendation.

Page 2
SBD Action
DB14-PWWM-01

If any additional information is needed, please call me at (305) 375-3267, or Frank Aira at (305) 375-2930.

JF/jf

Attachments (2)

C:	Laurie Johnson, ISD/SBD	Gaspar Miranda, PWWM
	Alice Hidalgo-Gato, ISD/SBD	Leandro Ona, PWWM
	Vivian Walters, ISD/SBD	Javier Heredia, PWWM
	Vivian Forhat-Diaz, ISD/SBD	Juan Santandreu, PWWM
	Faith Samuels, ISD	Marcos Redondo, PWWM
	Amelia Cordova, ISD	Frank Aira, PWWM
	Alfredo Munoz, PWWM	Bassam Moubayed, PWWM
	Alejandro Martinez-Esteve, PWWM	File

Date: July 2, 2014

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

From: James Ferreira, P.E.
Engineer 2
Public Works and Waste
Management Department

Project: PWWM Project No. 20140063
Project No. DB14-PWWM-01
Venetian Cswy Bridge Rehabilitation, Bridge
No. 874459

Funding Source: GOB

A/E Consultant Selection: Technical Certification Categories:

	Venetian Cswy Bridge Rehabilitation, Miami-Dade County		
3.03	Highway Systems – Bridge Design	70.8%	\$400,000
3.02	Highway Design	2.7%	15,000
3.09	Signing, Pavement Markings and Channelization	2.7%	15,000
3.10	Highway Systems - Lighting	2.7%	15,000
3.12	Highway Systems – Underwater Engineering Inspections	1.8%	\$10,000
6.01	Water and Sanitary Sewer Systems	0.9%	\$5,000
9.01	Drilling, Subsurface Investigations and Seismographic Services	8.8%	\$50,000
9.02	Geotechnical and Materials Engineering Services	4.4%	\$25,000
10.01	Stormwater Drainage Design Engineering Services	1.8%	\$10,000
15.01	Land Surveying and Mapping	1.8%	\$10,000
15.03	Underground Utility Location	0.9%	\$5,000
16.00	General Civil Engineering	0.9%	\$5,000
		100%	\$565,000

Recommended CBE Participation:

Engineering

Analysis of the factors contained in Administrative Order 3-32, indicate that a CBE Sub-consultant Goal may be appropriate for this project. Additionally, staff has met with SBD's Construction Project Manager, and concluded that there appears to be sufficient availability of CBE firms for the recommended areas to participate on this request to advertise for design services.

Comments:

DESIGN:

- Technical Certification category 3.02 & 3.03 is the only Technical Categories that the Lead Designer must hold.

- Pre-Qualification Requirement for A/E Design Team:
 1. All properly licensed firms and/or individuals providing engineering, architectural, landscape architectural, land surveying and, mapping services, regardless of their individual assignments in connection with this project, and responding to this solicitation must have filed with ISD a pre-qualification package and have approved pre-qualification status from ISD, in accordance with Chapter 2, Section 2-10.4 and Administrative Order 3-39 of Miami-Dade County, by the Step 1 Submittal Deadline. Firms and/or individuals are required to maintain active pre-qualification status at the time of Step 1 submittal to this "Request for Design-Build Services", solicitation evaluation and selection process, at time of award, and throughout the duration of the contract.
 2. Interested A/E firms and/or individuals must secure the required pre-qualification certification which includes, but may not be limited to technical certifications, affirmative action plan verification, vendor registration and execution of the basic Miami-Dade County affidavits, as applicable, prior to the submittal date. The A/E pre-qualification requirement is also applicable to any firm that may be later selected to perform work as a substitute for a previously selected firm, or to perform additional work on this project.
 3. Joint Venture firms may be pre-qualified in the same manner as other firms. In the alternative, if a Joint Venture firm opts to satisfy the technical certification requirements of this solicitation through the A/E firm comprising the Joint Venture, the Joint Venture shall at a minimum comply with the following additional requirements:
 - a. The Joint Venture shall in its own name obtain an approved affirmative action plan.
 - b. The Joint Venture shall in its own name submit a completed vendor registration package, including applicable affidavits.
 - c. The A/E entity shall in its own name be pre-qualified prior to the submittal date.

- The A/E Design Team, through full time personnel employed by the A/E Design Team, must demonstrate a minimum of five (5) years of continual experience from the date of this solicitation as the prime contractor in projects with scopes comparable to the Project Scope of Work. Demonstrate the experience requirement by including along with the submittal package:

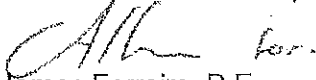
1. A detailed description of projects, similar to the Project Scope of Work, in which the A/E Design Team is currently engaged or has completed within the past ten (10) years from the date of this solicitation.
 2. List and describe those projects performed for government clients, similar size private entities, and any work performed for the County.
 3. Identify for each project a) the client, b) description of work, c) total dollar value of the contract, d) contract duration, e) customer contact person and phone number for reference, f) statement or notation of whether the A/E Design Team is/was the prime consultant or subconsultant, and g) the results of the project.
- The DESIGN-BUILDER shall employ geotechnical and drilled shaft testing consultants with the following minimum qualifications:
 1. Use professional engineers registered in the State of Florida with at least five (5) years of post-registration experience in drilled shaft foundation design and construction. The Geotechnical Engineer of Record (GEOR) for the foundation design must have designed and worked on at least three (3) bridge projects with drilled shaft foundations. This "responsible charge" experience shall include verifiable and successful implementation of static, Osterberg Cell and/or Statnamic load test results, and evaluation of pilot hole data. All designs must be signed and sealed by the GEOR for the foundation design.
 2. A testing plan shall be submitted by the Geotechnical Engineer of Record (GEOR) to determine shaft tip elevations. The plan shall be submitted to the County and the County issue approval prior to the start of any testing. This Licensed Professional Engineer registered in Florida must have been in responsible charge of this type of work for at least 5 similar bridge projects.

Build

Memorandum 

Date: July 11, 2014

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

From: 
James Ferreira, P.E.
Engineer 2
Public Works and Waste
Management Department

Subject: Notice of Design-Build Services:
PWWM Project No. 20140063
Project No. DB14-PWWM-01
Request for Proposals (RFP) for Design-Build
Services for the Venetian Causeway Bridge
Rehabilitation, Bridge No. 874459
DESIGN & CONSTRUCTION

RECOMMENDATION

It is recommended that Small Business Development (SBD) review and approve the attached Community Small Business Enterprise (CSBE) contract measure for **Project No. DB14-PWWM-01, RFP for DESIGN-BUILD services for the Venetian Cswy Bridge Rehabilitation, Bridge No. 874459**. Contracts and Specifications staff has evaluated the subject project and recommends a CSBE Sub-contractor **Trade Set Aside for Traffic Stripes and Markings: Painted and/or Thermoplastic** based on the project scope and applicable requirements of the RFP. The Venetian Causeway Bridge Rehabilitation was declared an emergency project in Resolution 468-14. Due to an accelerated design, permitting, and construction schedule, a cost estimate that places increased risk and burden on proposers, the historical nature of the bridge (federally historical designation), and the complexity of the project, PWWM does not recommend a CBE Sub-consultant goal neither a SBE measure for this project. The cost estimate for this RFP is approximately **\$7,670,318.00**. Please find attached the PWWM Project Measure Analysis and Recommendation findings along with other supporting documents for your consideration.

SCOPE OF WORK

Miami-Dade County Public Works and Waste Management has the need to establish a RFP for DESIGN-BUILD Services to perform all Work needed for the Venetian Causeway Bridge Rehabilitation as stated on the attached PWWM Project Measure Analysis and Recommendation.

Page 2
SBD Action
DB14-PWWM-01

If any additional information is needed, please call me at (305) 375-3267, or Frank Aira at (305) 375-2930.

JF/jf

Attachments (2)

C:	Laurie Johnson, ISD/SBD	Gaspar Miranda, PWWM
	Alice Hidalgo-Gato, ISD/SBD	Leandro Ona, PWWM
	Vivian Walters, ISD/SBD	Javier Heredia, PWWM
	Vivian Forhat-Diaz, ISD/SBD	Juan Santandreu, PWWM
	Faith Samuels, ISD	Marcos Redondo, PWWM
	Amelia Cordova, ISD	Frank Aira, PWWM
	Alfredo Munoz, PWWM	Bassam Moubayed, PWWM
	Alejandro Martinez-Esteve, PWWM	File

Miami-Dade County Public Works and Waste Management Department
Contract/Project Measure Analysis and Recommendation

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

From: James Ferreira, P.E.
Engineer 2
Public Works and Waste Management
Management Department

Date: Thursday, July 10, 2014

Department: Public Works and Waste Management

Contract Type:

Design-Build

PWWM Project No.:

20140063

Re-submittal: Yes; Previous Review Committee (RC) Submittal Dates

No

Project Title:

Venetian Cswy Bridge Rehabilitation, Bridge No. 874459

Standard Industrial Code (SIC):

16-Heavy

Estimated Project Cost:

\$7,670,318.00

Funding Source:

GOB

Bonding Requirements: Bid Bond— 5% of base bid amount
Performance Bond- 100% of Contract Award Amount

Method of Award: Lump Sum

Miami-Dade County Public Works and Waste Management Department
Contract/Project Measure Analysis and Recommendation

RPQ No.: 20140063

RPQ Title: Venetian Cswy Bridge Rehabilitation, Bridge No. 874459

Scope of Work:

- A. Work under this Contract includes furnishing of all supervision, labor, materials, tools, equipment and performing all operations required to construct the Work in accordance with the Contract Documents.
- B. Work includes all design and construction services necessary to rehabilitate the westernmost portion of Bridge No. 874459/Venetian Causeway in Miami-Dade County by removing and disposing, in an artificial reef, of approximately 730'-9" of the bridge's westernmost superstructure and substructure between the first abutment and the expansion joint at the end of the cantilevered beams, and replacing with a new complete bridge superstructure and substructure meeting the requirements of the Contract Documents. All work shall be performed during a full closure of the Causeway bridge. Work includes but is not limited to providing all geotechnical, survey, and design services necessary to produce the required construction documents, engineering plans, traffic control and maintenance of traffic plans (including signs, variable message boards, markings, etc. to detour traffic); project permitting; public involvement plan; and all project coordination.
- C. The Venetian Causeway is on the National Register of Historic Places. The DESIGN-BUILDER must coordinate the Work with all applicable agencies and provide a new bridge superstructure and substructure that preserves and matches all historic aspects and bridge characteristics of the existing structures while meeting all current standards as specified in the Contract Documents. This includes all necessary work and features necessary to neatly integrate the Work with the portions of the bridge and roadway that remain.

Requirements for the Design-Builder:

A. General:

1. The Design-Builder shall meet the requirements stated below. A Design-Builder is defined as a partnership, corporation, or other legal entity that:
 - a. Is certified under Section 489.119, Florida Statutes, to engage in contracting through a certified or registered general contractor or a certified or registered building contractor as the qualifying agent; or
 - b. Is certified under Section 471.023, Florida Statutes, to practice engineering; certified under Section 481.219 to practice architecture.
2. All interested Design-Builders must comply with the following:
 - a. Proposer must be prequalified and considered eligible by the Florida Department of Transportation (FDOT) under Section 337.14, F.S. and Chapter 14-22, Florida Administrative Code, to bid and perform the work described in the Contract Documents. Required FDOT prequalification(s) necessary to perform the Work specified in the

Miami-Dade County Public Works and Waste Management Department
Contract/Project Measure Analysis and Recommendation

RPQ No.: 20140063

RPQ Title: Venetian Cswy Bridge Rehabilitation, Bridge No. 874459

Contract Documents include the Major Bridge (Bridges Of Conventional Construction Which Are Over A Water Opening Of 1,000 Feet Or More). Design-Builders seeking consideration shall submit along with the proposal submittal package for review and consideration, current copies of their FDOT Certificate(s) of Qualification, Certification of Work Underway, and Status of Contract(s) On Hand.

3. The Design-Builder, through full time personnel employed by the Design-Builder, must demonstrate a minimum of five (5) years of continual experience from the date of this solicitation as the prime contractor in projects with scopes comparable to the Project Scope of Work. Demonstrate the experience requirement by including along with the submittal package:

- a. A detailed description of projects, similar to the Project Scope of Work, in which the Design-Builder is currently engaged or has completed within the past ten (10) years from the date of this solicitation.
- b. List and describe those projects performed for government clients, similar size private entities, and any work performed for the County.

Identify for each project a) the client, b) description of work, c) total dollar value of the contract, d) contract duration, e) customer contact person and phone number for reference, f) statement or notation of whether Design-Builder is/was the prime contractor or subcontractor, and g) the results of the project.

B. Design Team:

1. Technical Certification category 3.02 & 3.03 is the only Technical Categories that the Lead Designer must hold.
2. Proposers are required to be pre-qualified by Florida Department of Transportation (FDOT) in all work types required for the Project and satisfy all technical qualification requirements of Chapter 14-75 F.A.C.
3. The A/E Design Team, through full time personnel employed by the A/E Design Team, must demonstrate a minimum of five (5) years of continual experience from the date of this solicitation as the prime consultant in projects with scopes comparable to the Project Scope of Work. Demonstrate the experience requirement by including along with the submittal package:
 - a. A detailed description of projects, similar to the Project Scope of Work, in which the A/E Design Team is currently engaged or has completed within the past ten (10) years from the date of this solicitation.
 - b. List and describe those projects performed for government clients, similar size private entities, and any work performed for the County.
 - c. Identify for each project a) the client, b) description of work, c) total dollar value of the contract, d) contract duration, e) customer contact person and phone number for reference, f) statement or notation of whether the A/E Design Team is/was the prime consultant or subconsultant, and g) the results of the project.

RPQ No.: 20140063

RPQ Title: Venetian Cswy Bridge Rehabilitation, Bridge No. 874459

4. The Design-Builder shall employ geotechnical and drilled shaft testing consultants with the following minimum qualifications:
 - a. Use professional engineers registered in the State of Florida with at least five (5) years of post-registration experience in drilled shaft foundation design and construction. The Geotechnical Engineer of Record (GEOR) for the foundation design must have designed and worked on at least three (3) bridge projects with drilled shaft foundations. This "responsible charge" experience shall include verifiable and successful implementation of static, Osterberg Cell and/or Statnamic load test results, and evaluation of pilot hole data. All designs must be signed and sealed by the GEOR for the foundation design.
 - b. A testing plan shall be submitted by the Geotechnical Engineer of Record (GEOR) to determine shaft tip elevations. The plan shall be submitted to the County and the County issue approval prior to the start of any testing. This Licensed Professional Engineer registered in Florida must have been in responsible charge of this type of work for at least five (5) similar bridge projects.

C. Construction Team:

1. The Design-Builder shall employ Drilled Shaft Superintendents with the following minimum qualifications:
 - a. Use drilled shaft superintendents or foremen in responsible charge of drilling operations with experience in installing drilled shafts of the size and depth proposed and for the project for a period of not less than three years.
2. The DESIGN-BUILDER shall utilize a single dedicated person responsible for managing all utility coordination. This person shall be contractually referred to as the Utility Coordination Manager and shall be identified in the DESIGN-BUILDER's proposal. The DESIGN-BUILDER shall notify the County in writing of any change in the identity of the Utility Coordination Manager. The Utility Coordination Manager shall have the following knowledge, skills, and abilities:
 - a. A minimum of 4 years of experience performing utility coordination in accordance with County and FDOT standards, policies, and procedures.

Additional Information – Permits, Licenses, Certifications, and General Regulations

Permits that are issued by the Public Works Department, Miami-Dade County for construction within the public right-of-way, as well as additional permits, which may be required by other municipalities or agencies, including those required for tree removal, **will be the responsibility of the Contractor.**

County Road Construction Projects – NO PERMITS issued to sub-contractors. Except work related to Traffic Signalization, School Flashing Signals, Internally Illuminated Street Name Sign (IISNS), Street lighting, and Traffic Signal Loops which will require a separate permit issued to an Electrical Contractor to perform such work.

RPQ No.: 20140063

RPQ Title: Venetian Cswy Bridge Rehabilitation, Bridge No. 874459

Pavement Markings and Signage

- A. The work under pavement markings and signage (Thermoplastic traffic stripes and Markings) consists of placing traffic stripes and markings using a material of the type that is extruded onto the pavement surface in a molten state by mechanical means, with surface application of glass spheres. Upon cooling to normal pavement temperature these materials shall produce an adherent reflectorized pavement marking of specified thickness and width and be capable of resisting deformation by traffic.

INTENTIONALLY LEFT BLANK

Miami-Dade County Public Works and Waste Management Department
Contract/Project Measure Analysis and Recommendation

RPQ No.: 20140063

RPQ Title: Venetian Cswy Bridge Rehabilitation, Bridge No. 874459

PWWM Areas for possible measures:

Traffic Stripes and Markings: Painted and/or Thermoplastic, Signs

PWD Areas recommended for CSBE Subcontractor Goal:

Traffic Stripes and Markings: Painted and/or Thermoplastic

Contract Measure Recommendation:

No Measure

Set-Aside:

Level I Level II Level III

Trade Set-Aside(s):

Traffic Stripes and Markings: Painted and/or Thermoplastic

Aggregate Set-Aside

CSBE Subcontractor Goal

CWP

DBE Subcontractor Goal

INTENTIONALLY LEFT BLANK

Miami-Dade County Public Works and Waste Management Department
Contract/Project Measure Analysis and Recommendation

RPQ No.: 20140063

RPQ Title: Venetian Cswy Bridge Rehabilitation, Bridge No. 874459

Reason for Recommendation:

Staff has met with the design engineer, construction project manager, and members of the industry and concluded that there is ancillary work required to complete this project which may be subcontracted. Ancillary work includes all categories listed under "Areas for possible measures." All other areas to be subcontracted require special licenses and/or certifications. Also, some categories of work are highly specialized and require special, heavy machinery and/or equipment that are typically owned and/or leased by the contractor.

Comments:

In accordance with the Miami-Dade County Code (The Code), PWWM attached its Project Measure Analysis and Recommendation findings along with other supporting documents for consideration of small business participation.

Contracts and Specifications staff completed its review of the scope of work for the subject RFP. Based on the analysis of factors contained in Section VI D of Implementing Order 3-22, Public Works and Waste Management (PWWM) suggests the following contract measure recommendation: Trade Set-Aside: Traffic Stripes and Markings: Painted and/or Thermoplastic.

The types of opportunities provided are appropriate for applying a Trade Set-Aside; and, effective competition exists in that three or more CSBEs appear to be available to perform in the recommended specialty trade area within SIC 17.

INTENTIONALLY LEFT BLANK

Miami-Dade County Public Works and Waste Management Department
Contract/Project Measure Analysis and Recommendation

RPQ No.: 20140063

RPQ Title: Venetian Cswy Bridge Rehabilitation, Bridge No. 874459

CSBE Prime History of similar Contracts/Projects for previous three years:

None

Scope of Work History Summary – Subcontracting Opportunities:

Areas recommended for CSBE Trade Set-Aside (PWD/SBD):

Traffic Stripes and Markings (Painted and/or Thermoplastic)

Areas used to meet subcontractor goal (Awarded Contractor):

Traffic Stripes and Markings (Painted and/or Thermoplastic)

Similar Projects previously submitted for SBD Action:

20120152

CSBE Goal / Project No. / Amount achieved:

PWWM would have to confirm with the Compliance Monitor

INTENTIONALLY LEFT BLANK

DEPARTMENT INPUT
CONSTRUCTION CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION

Check applicable Ordinance(s): 90-143 Responsible Wage and Benefits 03-237 (formerly 03-1) Community Workforce Program

PROJECT INFORMATION See attachment

Contract/Project/*Work Order No.: **20140063**

*Reference corresponding project number when submitting a work order

Contract/Project Title: **Venetian Cswy Bridge Rehabilitation, Bridge No. 874459**

Description/Scope of Work: **See Attached**

Estimated Cost: **7670318** Funding Source: **Other (specify)**

Location of Project (street address or beginning and ending points) i.e. 12345 NE 23rd Ct or Starts at 135 St. ends at 145 St.
The westernmost portion of Bridge No. 874459/Venetian Causeway in Miami-Dade County.

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CWP) See attachment

Engineer/Department or Agency's estimated required workforce for Project Work Order :

Trade/Skills Required	Est. # of workforce required per trade	Est. # of total days to complete job
Supervisor	1	270
Foremen	1	270
Operator	2	270

Comments: Please note the estimated number of days to complete the job may not be equal to actual amount of days indicated above. In addition, respective employees utilized for various scopes of work throughout the duration of the contract. The Contract also afford the ability to add and/or delete sites.

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CSBE) See attachment

Sub-Trade	Est. Cost	% of Item to Base Bid	Availability
	\$	%	
	\$	%	
	\$	%	

RECOMMENDATION

Set-Aside: Level 1 Level 2 Level 3 Trade Set-Aside Sub-Contractor Goal Workforce Goal No Measure

Basis for Recommendation: Analysis of factors contained in Section VID of Implementing Order 3-22. PWWM suggests the following contract measure recommendation: Trade Set-Aside: Traffic Stripes and Markings: Painted and/or Thermoplastic.

Date submitted to DBD: **7-10-14**

Contact Person: **James Ferreira or Frank Aira**

Telephone No.: **305-375-3267**

DEPARTMENT INPUT
CONSTRUCTION CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION

Check applicable Ordinance(s): 90-143 Responsible Wage and Benefits 03-237 (formerly 03-1) Community Workforce Program

PROJECT INFORMATION See attachment

Contract/Project/*Work Order No.: **20140063**

*Reference corresponding project number when submitting a work order

Contract/Project Title: Venetian Cswy Bridge Rehabilitation, Bridge No. 874459

Description/Scope of Work: See Attached

Estimated Cost: 7670318 Funding Source: Other (specify)

Location of Project (street address or beginning and ending points) i.e. 12345 NE 23rd Ct or Starts at 135 St. ends at 145 St.
The westernmost portion of Bridge No. 874459/Venetian Causeway in Miami-Dade County.

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CWP) See attachment

Engineer/Department or Agency's estimated required workforce for Project Work Order :

Trade/Skills Required	Est. # of workforce required per trade	Est. # of total days to complete job
Laborers	6	270

Comments: Please note the estimated number of days to complete the job may not be equal to actual amount of days indicated above. In addition, respective employees utilized for various scopes of work throughout the duration of the contract. The Contract also afford the ability to add and/or delete sites.

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CSBE) See attachment

Sub-Trade	Est. Cost	% of Item to Base Bid	Availability
	\$	%	
	\$	%	
	\$	%	

RECOMMENDATION

Set-Aside: Level 1 Level 2 Level 3 Trade Set-Aside Sub-Contractor Goal Workforce Goal No Measure

Basis for Recommendation: Analysis of factors contained in Section VI D of Implementing Order 3-22. PWWM suggests the following contract measure recommendation: Trade Set-Aside #1: Traffic Stripes and Markings: Painted and/or Thermoplastic.

Date submitted to DBD: 7-10-14

Contact Person: James Ferreira or Frank Aira

Telephone No.: 305-375-3267

Section	Section Description	Quantity	Unit	Unit Price	% of Contract	Amount
A Engineering Service - Plans						
	Scour Analysis	1.00	EA	\$ 50,000.00	0.65%	\$ 50,000.00
	Underground Utility Location	1.00	EA	\$ 5,000.00	0.07%	\$ 5,000.00
	Design Plans (Structure, Roadway, etc)	1.00	EA	\$ 420,000.00	5.48%	\$ 420,000.00
	Permitting	1.00	EA	\$ 5,000.00	0.07%	\$ 5,000.00
	Subtotal for Section A				5.61%	\$ 480,000.00
B Geotechnical Work						
	Field Work	1.00	LS	\$ 60,000.00	0.78%	\$ 60,000.00
	Bridge Report	1.00	LS	\$ 15,000.00	0.20%	\$ 15,000.00
	Subtotal for Section B				0.98%	\$ 75,000.00
C Survey Services						
	Design Field Investigation	1.00	LS	\$ 8,000.00	0.10%	\$ 8,000.00
	Design Data Submittal	1.00	LS	\$ 2,000.00	0.03%	\$ 2,000.00
	Subtotal for Section C				0.13%	\$ 10,000.00
D Construction Mobilization						
	Construction Mobilization	1.00	LS	\$ 628,210.69	8.19%	\$ 628,210.69
	Subtotal for Section D				8.19%	\$ 628,210.69
E Maintenance of Traffic						
	Maintenance of Traffic	1.00	LS	\$ 100,000.00	1.30%	\$ 100,000.00
	Subtotal for Section E				1.30%	\$ 100,000.00
F Erosion Control						
	Initial Erosion Control	1.00	LS	\$ 25,000.00	0.33%	\$ 25,000.00
	Erosion Control Maintenance	1.00	LS	\$ 45,000.00	0.59%	\$ 45,000.00
	Subtotal for Section F				0.91%	\$ 70,000.00
G Roadway						
	Milling	3000.00	SY	\$ 5.00	0.20%	\$ 15,000.00
	Stabilization	200.00	SY	\$ 5.00	0.01%	\$ 1,000.00
	Optional Base	200.00	SY	\$ 20.00	0.05%	\$ 4,000.00
	Grassing/Sod	150.00	SY	\$ 5.00	0.01%	\$ 750.00
	Flatwork / Curb & Gutter / Sidewalk	700.00	SY	\$ 40.00	0.37%	\$ 28,000.00
	Clearing and Grubbing	150.00	SY	\$ 5.00	0.01%	\$ 750.00
	Subtotal for Section G				0.65%	\$ 49,500.00
H Drainage						
	Scupper	34.00	EA	\$ 500.00	0.22%	\$ 17,000.00
	Subtotal for Section H				0.22%	\$ 17,000.00
I Utilities						
	Temp Support of Utilities	1.00	LS	\$ 25,000.00	0.33%	\$ 25,000.00
	Subtotal for Section I				0.33%	\$ 25,000.00
J Bridge						
	Bridge Span Demolition	1.00	LS	\$ 1,860,000.00	24.25%	\$ 1,860,000.00
	Seawalls	100.00	LF	\$ 750.00	0.98%	\$ 75,000.00
	Sheeting	100.00	LF	\$ 300.00	0.39%	\$ 30,000.00
	Bearing Pads	112.00	EA	\$ 500.00	0.73%	\$ 56,000.00
	Substructure Caps	375.00	CY	\$ 1,000.00	4.89%	\$ 375,000.00
	Deck Concrete	967.00	CY	\$ 900.00	11.35%	\$ 870,300.00
	Expansion Joint	83.33	LF	\$ 50.00	0.05%	\$ 4,166.50
	Reinforced Concrete Beams	2900.00	LF	\$ 360.00	13.61%	\$ 1,044,000.00
	Approach Slabs	1.00	EA	\$ 25,000.00	0.33%	\$ 25,000.00
	Railings	1461.50	LF	\$ 300.00	5.72%	\$ 438,450.00
	Slope Protection	1.00	LS	\$ 5,000.00	0.07%	\$ 5,000.00
	Drilled Shaft	32.00	EA	\$ 20,000.00	8.34%	\$ 640,000.00

	Reinforcing Steel - Superstructure	288000.00	LB	\$ 1.00	3.75%	\$ 288,000.00
	Reinforcing Steel - Substructure	99000.00	LB	\$ 1.00	1.29%	\$ 99,000.00
	Asphalt Overlay	144.60	TN	\$ 150.00	0.28%	\$ 21,690.38
	Class V Finish	27500.00	SF	\$ 2.00	0.72%	\$ 55,000.00
	Lighting	36.00	EA	\$ 4,000.00	1.88%	\$ 144,000.00
	Abutment Construction	1.00	LS	\$ 100,000.00	1.30%	\$ 100,000.00
	Movable Bridge	1.00	LS	\$ 35,000.00	0.46%	\$ 35,000.00
	Subtotal for Section J				80.38%	\$ 6,165,606.88
K	Signing and Pavement Markings					
	Restriping	1.00	LS	\$ 25,000.00	0.33%	\$ 25,000.00
	Subtotal for Section K				0.33%	\$ 25,000.00
L	Signalization					
	Signalization	1.00	LS	\$ 15,000.00	0.20%	\$ 15,000.00
	Subtotal for Section L				0.20%	\$ 15,000.00
M	Landscaping					
	Landscaping	1.00	LS	\$ 10,000.00	0.13%	\$ 10,000.00
	Subtotal for Section M				0.13%	\$ 10,000.00
	Subtotal				100.00%	\$ 7,670,317.56
	Contingency				10.00%	\$ 767,031.76
	PROJECT TOTAL					\$ 8,437,349.32