

Date: June 27, 2016

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

AM for

From: Alejandro Martinez-Esteve, R.A., LEED AP
Manager, Capital Improvements
Department of Transportation and Public Works

Subject: Notice of Design-Build Services:
DTPW Project No. 20160167
Project No. DB16-DTPW-06
Request for Proposals (RFP) for Design-Build
Services for the Bridge Replacement at Snapper
Creek West of SW 107 Avenue (874436)
DESIGN & CONSTRUCTION

RECOMMENDATION

It is recommended that The Internal Service Department's Small Business Development Division (SBD) review and approve the attached Small Business Enterprise – Architectural & Engineering (SBE-AE) and Small Business Enterprise - Construction (SBE-CONST) contract measures for **Project No. DB16-DTPW-06, RFP for DESIGN-BUILD services for the Bridge Replacement at Snapper Creek West of SW 107 Avenue (874436); DTPW Project No. 20160167.** Department of Transportation and Public Works (DTPW), Capital Improvements staff has evaluated the subject project and recommends a **SBE-CONST Trade Set Aside for Traffic Stripes and Markings: Painted and/or Thermoplastic** based on the project scope and applicable requirements. Due to an accelerated design, permitting, and construction schedule, and the complexity of the project, the DTPW is recommending a **7.05% SBE-AE goal for Surveying and Mapping and does not recommend an SBE-GS Goal.** The cost estimate for this project is approximately **\$2,166,749.81.** Attached please find the DTPW project measure analysis, and recommendation findings, along with other supporting documents for your consideration.

SCOPE OF WORK

DTPW has the need to establish a RFP for DESIGN-BUILD Services to perform all Work needed for a Bridge Replacement at Snapper Creek West of SW 107 Avenue (874436) as stated on the attached DTPW Project Measure Analysis and Recommendation.

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

AM/am

Attachments (2)

C:	Laurie Johnson, ISD/SBD	Gaspar Miranda, P.E., DTPW
	Eddy Etienne, ISD/SBD	Leandro Ona, P.E., DTPW
	Julie Whiteside, ISD	Raul Quintela, P.E., DTPW
	Marcos Redondo, P.E., DTPW	Juan Santandreu, P.E., DTPW
	Octavio Marin, P.E., DTPW	Bassam Moubayed, DTPW
	Alfredo Munoz, P.E., DTPW	File

RPQ 20160167

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

From: Alejandro Martinez-Esteve, R.A., LEED AP
Manager, Capital Improvements
Department of Transportation and Public Works

Date: Monday, June 27, 2016

Department: Transportation and Public Works (DTPW)

Contract Type: Design-Build

DTPW Project No.: 20160167; ISD Project No. DB16-DTPW-06

RPQ No.: 20160167

Re-submittal: Yes; Previous Review Committee (RC) Submittal Dates
 No

Project Title: Design-Build Services for the Bridge Replacement at Snapper Creek West of SW
107 Avenue (874436)

Standard Industrial Code (SIC): 16-Heavy

Estimated Project Cost: \$2,166,749.81

Funding Source: Road Impact Fees

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

Method of Award: Lump Sum

RPQ Title: Design-Build Services for the Bridge Replacement at Snapper Creek West of SW
107 Avenue (874436)

Scope of Work:

The work includes, but is not limited to furnishing all professional services, supervision, labor, materials, equipment, tools and performing all operations required to construct the work in accordance with the Contract Documents. The work includes all design and construction services for the complete replacement of the existing Snapper Creek Bridge (No. 874436) west of SW 107 Avenue including roadway approaches, geotechnical, survey, permits, and all other design services in accordance with the latest AASHTO, County, and FDOT design standards, necessary to produce the required construction documents, engineering plans, traffic control and maintenance of traffic plans (including signs, variable message boards, and markings to detour traffic), project permitting, public involvement plan, project coordination, and all the necessary incidentals for the complete replacement of the existing bridge.

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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:

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 Contract Documents include the Minor Bridge Work Class. 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.
 - 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 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

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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.

C. Construction Team:

Certificate of Competency Requirement:

1. At the time of Bid and pursuant to the requirements of Section 10-3 of the Code of Miami-Dade County, Florida and these Solicitation and Contract Documents, the Construction team must hold a valid, current, and active:
 - a. Certificate of Competency from the County's Construction Trades Qualifying Board as a General Engineering Contractor or as a Specialty Engineering Contractor, commensurate to the requirements of the Scope of Work, in one or more engineering crafts to include structural engineering contractor. The specialty contractor shall subcontract with a qualified contractor any work which is incidental to the specialty but is specified in the aforementioned Code as being the work of other than that of the Engineering Specialty for which certified; or
 - b. Pursuant to Section 255.20, F.S. and in lieu of the above, the County may consider a bid from a Bidder that is a duly licensed Contractor in good standing that has been prequalified and considered eligible by the Florida Department of Transportation (FDOT) under Section 337.14, F.S. and Chapter 14-2, Florida Administrative Code, to perform the work described in the Contract Documents. Contractors seeking consideration under this Paragraph shall submit along with the Bid Documents for review and consideration, current copy(ies) of their FDOT Certificate(s) of Qualification, Certification of Work Underway, and Status of Contract(s) On Hand. Acceptable FDOT prequalification(s) necessary to perform the Work specified in the Contract Documents include the Minor Bridge Work Class.

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

Permits that are issued by DTPW 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, Street Lighting, and Traffic Signal Loops which will require a separate permit issued to an Electrical Contractor to perform such work.

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Surveying and Mapping

- A. The work may include photogrammetric control; the measurement and preparation of plans showing existing improvements after construction; the layout of proposed improvements; the preparation of descriptions for use in legal instruments of conveyance of real property and property rights; the determination of, but not the design of, grades and elevations of roads and land in connection with subdivisions or divisions of land; or the creation and perpetuation of alignments related to maps, field note records, reports, property descriptions, and plans and drawings that represent them. This work class category also includes the provision of topographic, hydrographic and geodetic surveying and mapping services.

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.

Contract Measure Recommendation:

- No Measure
- Set-Aside:
- Level I Level II Level III
- Trade Set-Aside(s):
- SBE-Const.: Traffic Stripes and Markings**
- Aggregate Set-Aside
- SBE-AE Subconsultant Goal:
- 7.05% (Surveying and Mapping)**
- CSBE Subcontractor Goal
- CWP
- DBE Subcontractor Goal

Reason for Recommendation:

Staff has met with the design engineer, construction project manager 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 or certifications. Additionally, some categories of work are highly specialized and require heavy machinery or equipment.

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Comments:

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

Based on the analysis of factors contained in Section VI D of Implementing Order 3-22, DTPW suggests the following contract measure recommendation: 7.05% SBE-A&E for Surveying and Mapping and Trade Set-Aside SBE-Const. for Traffic Stripes and Markings and for Landscaping and No SBE-GS Measure.

Scope of Work History Summary – Subcontracting Opportunities:

Areas recommended for SBE-CONST Trade Set-Aside (DTPW/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
20140063
20160162
20160163
20160164
20160165
20160166

- [Previous Inspections](#)

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N Snapper Creek Dr over SW 109th Avenue Canal

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Map

- [Google Maps](#)
- [Bing Maps](#)
- [OpenStreetMap](#)
- [MapQuest.com](#)
- [USGS National Map](#)
- [Geo URI \(Android\)](#)

Coordinates:

+25.70250, -80.36694

25°42'09" N, 80°22'01" W



Source: National Bridge Inventory
Information not verified. Use at your own risk.

Facts

Name: N Snapper Creek Dr over SW 109th Avenue Canal
Structure number: 874436
Location: 0.1Mile W of SW 107th Ave

Purpose: Carries highway and pedestrian walkway over waterway
 Route classification: Collector (Urban) [17]
 Length of largest span: 21.0 ft. [6.4 m]
 Total length: 21.0 ft. [6.4 m]
 Roadway width between curbs: 24.9 ft. [7.6 m]
 Deck width edge-to-edge: 35.1 ft. [10.7 m]
 Owner: County Highway Agency [02]
 Year built: 1960
 Historic significance: Bridge is not eligible for the National Register of Historic Places [5]
 Design load: MS 18 / HS 20 [5]
 Main span material: Concrete [1]
 Main span design: Slab [01]
 Deck type: Concrete Cast-in-Place [1]
 Wearing surface: Monolithic Concrete (concurrently placed with structural deck) [1]

Latest Available Inspection: May 2014

Status: Open, no restriction [A]
 Average daily traffic: 6,242 [as of 2014]
 Truck traffic: 1% of total traffic
 Deck condition: Good [7 out of 9]
 Superstructure condition: Good [7 out of 9]
 Substructure condition: Good [7 out of 9]
 Structural appraisal: Better than present minimum criteria [7]
 Deck geometry appraisal: Basically intolerable requiring high priority of replacement [2]
 Water adequacy appraisal: Equal to present minimum criteria [6]
 Roadway alignment appraisal: Equal to present desirable criteria [8]
 Channel protection: Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift. [7]
 Pier/abutment protection: Navigation protection not required [1]
 Scour condition: Bridge foundations determined to be stable for assessed or calculated scour condition. [5]
 Operating rating: 61.8 tons [56.2 metric tons]
 Inventory rating: 37.1 tons [33.7 metric tons]
 Evaluation: Functionally obsolete [2]
 Sufficiency rating: 76.9

Previous Inspections

Date	Suff. rating	Evaluation	Deck	Super.	Sub.	ADT
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May 2014	76.9	Functionally obsolete	Good	Good	Good	6242
May 2012	76.9	Functionally obsolete	Good	Good	Good	6242
May 2010	76.9	Functionally obsolete	Good	Good	Good	6242
April 2008	76.9	Functionally obsolete	Good	Good	Good	6242
May 2006	76.9	Not applicable	Good	Good	Good	6242
May 2004	76.9	Not applicable	Very Good	Very Good	Very Good	6242
August 2002	76.9	Functionally obsolete	Good	Good	Good	6242
January 2000	76.9	Functionally obsolete	Satisfactory	Good	Good	6242
January 1998	76.9	Functionally obsolete	Satisfactory	Good	Good	6120
November 1995	49.0	Structurally deficient	Good	Good	Poor	6006
April 1994	65.8	Functionally obsolete	Good	Good	Fair	5094
February 1992	65.8	Functionally obsolete	Good	Good	Fair	4995

Uglybridges.com: National Bridge Inventory data

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Disclaimer: All data is taken from the National Bridge Inventory and has **not** been verified.

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20160167 DB16-DTPW-06
 Design-Build Services for Bridge Replacement at Snapper Creek W/O SW 107 Ave
 (874436)

Section	Section Description	Quantity	Unit	Unit Price	% of Contract	Amount
A Engineering Service - Plans						
	Highway Design	1.00	EA	\$ 75,000.00	3.66%	\$ 75,000.00
	Bridge Design	1.00	EA	\$ 90,000.00	4.39%	\$ 90,000.00
	Signing, Pavement Marking	1.00	EA	\$ 20,000.00	0.97%	\$ 20,000.00
	Environmental Engineering - Stormwater Drainage Design (Includes permitting)	1.00	EA	\$ 25,000.00	1.22%	\$ 25,000.00
	Subtotal for Section A				6.58%	\$ 210,000.00
B Geotechnical Work						
	Soils, Foundations and Materials Testing - Drilling, Subsurface Investigations and Seismographic Services	1.00	LS	\$ 14,000.00	0.68%	\$ 14,000.00
	Soils, Foundations and Materials Testing - Geotechnical and Materials Engineering Services	1.00	LS	\$ 14,000.00	0.68%	\$ 14,000.00
	Subtotal for Section B				1.36%	\$ 28,000.00
C Survey Services						
	Surveying and Mapping - Land Surveying	1.00	LS	\$ 20,000.00	0.97%	\$ 20,000.00
	Subtotal for Section C				0.97%	\$ 20,000.00
D Construction Mobilization						
	Construction Mobilization	1.00	LS	\$ 144,844.14	7.06%	\$ 144,844.14
	Subtotal for Section D				7.06%	\$ 144,844.14
E Maintenance of Traffic						
	Maintenance of Traffic	1.00	LS	\$ 200,000.00	9.75%	\$ 200,000.00
	Subtotal for Section E				9.75%	\$ 200,000.00
F Erosion Control						
	Initial Erosion Control	1.00	LS	\$ 20,000.00	0.97%	\$ 20,000.00
	Erosion Control Maintenance	1.00	LS	\$ 30,000.00	1.46%	\$ 30,000.00
	Subtotal for Section F				2.44%	\$ 50,000.00
G Roadway						
	Milling	250.00	SY	\$ 5.00	0.06%	\$ 1,250.00
	Stabilization	1670.00	SY	\$ 12.00	0.98%	\$ 20,040.00
	Optional Base	1670.00	SY	\$ 20.00	1.63%	\$ 33,400.00
	Grassing/Sod	450.00	SY	\$ 5.00	0.11%	\$ 2,250.00
	Flatwork / Curb & Gutter / Sidewalk	200.00	SY	\$ 40.00	0.39%	\$ 8,000.00
	Clearing and Grubbing	400.00	SY	\$ 5.00	0.10%	\$ 2,000.00
	Guardrail	400.00	LF	\$ 100.00	1.95%	\$ 40,000.00
	Asphalt Overlay - Superpave 2 inch thick	146.67	TN	\$ 100.00	0.71%	\$ 14,666.67
	Subtotal for Section G				3.26%	\$ 121,606.67
H Drainage						
	Water Treatment	1.00	LS	\$ 20,000.00	0.97%	\$ 20,000.00
	Subtotal for Section H				0.97%	\$ 20,000.00
I Utilities						
	Underground Utility Relocation	1.00	LS	\$ 30,000.00	1.46%	\$ 30,000.00
	Temp Support of Utilities	1.00	LS	\$ 20,000.00	0.97%	\$ 20,000.00
	Subtotal for Section I				0.97%	\$ 50,000.00
J Bridge						
	Bridge Span Demolition	2240.00	SF	\$ 42.00	4.59%	\$ 94,080.00
	Bearing Pads	10.08	CF	\$ 1,800.00	0.88%	\$ 18,144.00
	Substructure Concrete	53.78	CY	\$ 1,200.00	3.15%	\$ 64,536.00
	Superstructure Concrete	29.10	CY	\$ 960.00	1.36%	\$ 27,936.00
	Approach Slab Concrete	134.40	CY	\$ 600.00	3.93%	\$ 80,640.00
	Expansion Joint	123.00	LF	\$ 72.00	0.43%	\$ 8,856.00
	Traffic Railings	168.00	LF	\$ 72.00	0.59%	\$ 12,096.00
	Pedestrian Railings	0.00	LF	\$ 60.00	0.00%	\$ -
	Slope Protection	5525.00	SF	\$ 120.00	32.32%	\$ 663,000.00
	Prestressed Concrete Piles - (18 inch)	900.00	LF	\$ 120.00	5.26%	\$ 108,000.00
	Reinforcing Steel - Superstructure	8439.00	LB	\$ 1.20	0.49%	\$ 10,126.80
	Reinforcing Steel - Substructure	7347.00	LB	\$ 1.20	0.43%	\$ 8,816.40
	Reinforcing Steel - Approach Slab	25333.00	LB	\$ 1.20	1.48%	\$ 30,399.60
	48" Prestressed Slab Units	384.00	LF	\$ 190.00	3.56%	\$ 72,960.00
	Subtotal for Section J				58.48%	\$ 1,199,590.80
K Signing and Pavement Markings						
	Restriping	1.00	LS	\$ 7,243.93	0.35%	\$ 7,243.93
	Subtotal for Section K				0.35%	\$ 7,243.93
L Signalization						
	Signalization	0.00	LS	\$ -	0.00%	\$ -
	Subtotal for Section L				0.00%	\$ -
M Landscaping						
	Landscaping	0.00	LS	\$ -	0.00%	\$ -
	Subtotal for Section M				0.00%	\$ -
Design Subtotal						\$ 258,000.00
Construction Subtotal						\$ 1,793,285.53
Design & Construction Subtotal						100.00% \$ 2,051,285.53
Construction Contingency						5.00% \$ 89,664.28
Design Contingency						10.00% \$ 25,800.00
PROJECT TOTAL						\$ 2,166,749.81

7.05%

\$ 283,800.00