

Date: October 02, 2019

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

From: Alfredo E. Munoz, P.E.
Chief, Capital Improvements
Department of Transportation and Public
Works

Subject: Notice of Design/Build Services:
ISD Project No. DB19-DTPW- 03
DTPW Project No. 20190256
Roadway Improvements to NE 2 Avenue from
NE 20 Street to NE 36 Street
DESIGN/BUILD

RECOMMENDATION

Department of Transportation and Public Works (DTPW) Capital Improvements staff completed the review of the subject Design/Build Services in accordance with the applicable provisions of Implementing Order 3-22. Please review and approve the resulting Small Business Enterprise (SBE) subconsultant/subcontractor goal for design-build services for the above-referenced project. Attached is the Project Measure Analysis and Recommendation along with other supporting documentation.

Scope of Work:

The work includes but is not limited to the following:
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 necessary to perform roadway reconstruction, new stormwater system, sidewalks, curb and gutters, pavement markings, signage, signalization, decorative lighting, and landscaping. Work also includes all design and construction services necessary to install 4600 linear feet of 16-inch ductile iron pipe (DIP) water main and 1500 linear feet of 12-inch DIP water main and all appurtenances.

Engineer Project Total Cost Estimate
(including Contingency):

Design: \$811,848; Construction: \$12,345,017

SBE A/E Measure:		100%
SBE G/S Measure:	MOT Devices	1.6%
SBE Construction Measure:	Concrete	4.9%
	Landscaping	0.6%
	Signage & Pavement Markings	0.4%
CWP Goal:	As applicable	

BACKGROUND

This project was previously submitted as a JPA (CMJPA-2015.01) as project 20150115 between Miami-Dade County and the City of Miami for the design and construction of a roadway improvement project along NE 2 Avenue from NE 20 Street to NE 36 Street. Later, the Water and Sewer Department (WASD) added additional scope of work which was not included in the JPA. In January 2019, DTPW and WASD signed an interdepartmental Memorandum of Agreement (MOA) to participate in a joint utility and roadway improvement project in this specific area. As a result of the MOA the utility work was incorporated into new DTPW Roadway Improvement Project.

If any additional information is required you may contact me at (305) 375-2097, or Roxana Bayarre at (305) 375-3267.

AM/rb


Attachments (3)

C: Roxana Bayarre, P.E., DTPW
Alfredo E. Munoz, P.E., DTPW
Laurie Johnson, ISD
File

Alejandro Sauleda, DTPW
Miguel Soria, P.E., DTPW
Alice Hidalgo-Gato, ISD

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
CONTRACT / PROJECT MEASURE ANALYSIS AND RECOMMENDATION

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

From: Alfredo E. Munoz, P.E. 
Chief, Capital Improvements Section
Department of Transportation and Public Works

Date: Wednesday, October 02, 2019

CONTRACT INFORMATION

PWWM Project No.: 20190256

ISD Project No.: DB19-DTPW-03

Project Title: Roadway Improvements to NE 2 Avenue from NE 20 Street to NE 36 Street

Re-submittal: Yes – This project was previously submitted as a Joint Participation Agreement (JPA) under Department of Transportation and Public Works (DTPW) project 20150115.

Standard Industrial Code (SIC) / North American Industry Classification Code (NAICS): 1610 / 237310 - Construction – Highway, Street & Bridge Construction

Estimated Project Total Cost (including Contingency): \$ 12,345,017 - Construction
\$ 811,848 - Design

Funding Source: People's Transportation Plan (PTP) and Water Renewal and Replacement Fund (WASD R&R)

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

PROJECT INFORMATION

Scope of Work

The work includes but is not limited to the following: Furnishing all professional services, supervision, labor, materials, equipment, tools and performing all operations required to construct the work in accordance with the Contract Documents.

Project No.: DB19-DTPW-03 (20190256)
Project Title: Roadway Improvements to NE 2 Avenue from NE 20 Street to NE 36 Street

**MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
CONTRACT / PROJECT MEASURE ANALYSIS AND RECOMMENDATION**

The work includes all design and construction services necessary to perform roadway reconstruction, new stormwater system, sidewalks, curb and gutters, pavement markings, signage, signalization, decorative lighting, and landscaping. Work also includes all design and construction services necessary to install 4600 linear feet of 16-inch ductile iron pipe (DIP) water main and 1500 linear feet of 12-inch DIP water main and all appurtenances.

Design:

There are no special and/or minimum requirements the Lead Designer and/or sub-consultants should possess. Technical Certification category 3.02, 3.09, and 10.01 are the only Technical Categories that the Lead Designer must hold.

A/E Consultant Selection: Technical Certification Categories:

Roadway Improvements along NE 2nd Ave from NE 20 St to NE 36 St – Design Costs Segment A			
3.02	Major Highway Design (Lead A/E)	28.07%	\$227,860.43
3.09	Signing, Pavement Marking, and Channelization (Lead A/E)	4.25%	\$34,524.31
10.05	Stormwater Drainage Design Engineering Services (Lead A/E)	13.61%	\$110,477.78
3.10	Lighting	9.36%	\$75,953.48
3.11	Signalization	11.91%	\$96,668.06
6.01	Water Distribution And Sanitary Sewage Collection And Transmission Systems	19.20%	\$155,886.17
9.02	Geotechnical And Materials Engineering Services	1.28%	\$10,357.29
9.03	Concrete and Asphalt Testing Services	0.85%	\$6,904.86
10.01	Contamination Assessment and Monitoring	0.85%	\$6,904.86
15.01	Land Surveying	5.95%	\$48,334.03
15.02	Aerial Photogrammetry	1.28%	\$10,357.29
20.00	Landscape Architecture	3.40%	\$27,619.45
		100.00%	\$811,847.58

Required Contractor's Certification:

At the time of Bid and pursuant to the requirements of Section 10-3 of the Code of Miami-Dade County, Florida (the County), Florida and these Solicitation and Contract Documents, the Bidder must hold a valid, current, and active Certificate of Competency as a General Engineering Contractor or as a Specialty Engineering Contractor, commensurate to the requirements of the Scope of Work, in engineering crafts to include paving engineering work. 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.

Pursuant to Section 255.20, Florida Statutes (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 pre-qualified 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 Contracts on Hand. Acceptable FDOT qualification(s) necessary to perform the work specified in the project's scope of work shall include Flexible Paving, Drainage Work Classes and Traffic Signal.

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 Design - Builder.

RECOMMENDATION

DTPWM Areas recommended for SBE Subcontractor Goal:

SBE A/E Measure: 100%, Tier 3 Set Aside

SBE Construction Measure: Concrete
Landscaping
Signage & Pavement Markings

Contract Measure Recommendation:

No Measure

Set-Aside:

Level I

Level II

Level III

Project No.: DB19-DTPW-03 (20190256)
Project Title: Roadway Improvements to NE 2 Avenue from NE 20 Street to NE 36 Street

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
CONTRACT / PROJECT MEASURE ANALYSIS AND RECOMMENDATION

- Trade Set-Aside(s):
- Aggregate Set-Aside
- SBE Subcontractor Goal:
 - A/E Measure: 100%
 - G/S Measure: MOT Devices 1.6%
 - Construction Measure: Concrete 4.9%
 - Landscaping 0.6%
 - Signing & Pavement Markings 0.4%
- CWP: As Applicable
- DBE Subcontractor Goal: Not Applicable

Reason for Recommendation: The recommendations are based on the information provided in the attached cost estimate which is provided in accordance with the Miami-Dade County Code.

Similar Projects previously submitted for SBD Action: 20150195

SBE Goal / Project No. / Amount achieved:
SBE/AE – 100%
SBE/GS – 4.0%
SBE/CONS – 10.3%
CWP – 10%

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST



NE 2nd AVE. FROM NE 20th STREET TO NE 36th STREET
 Length of project - 5,694ft = 1.078 Miles
 Roadway Varies from 77.0 ft to 45.0 ft

5001 S.W. 74 Court Suite 201
 Miami, Florida 33155
 Tel: (305) 662-8887
 Fax: (305) 662-8858

September 19, 2019

Engineer's Opinion of Probable Cost (30%)

ITEM NO.	ITEM DESCRIPTION	UNIT	EST. QTY	UNIT COST	TOTAL COST
102-3	COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE	CY	30,780	\$5.00	\$153,900.00
102-60	WORK ZONE SIGNS	ED	31,149	\$0.40	\$12,459.60
102-61	BUSINESS SIGNS (TEMPORARY, POST MOUNTED)	EA	75	\$92.00	\$6,900.00
102-71-11	TEMPORARY BARRIER WALL (F&I) (CONCRETE)	LF	1,329	\$31.50	\$41,863.50
102-71-21	TEMPORARY BARRIER WALL (RELOCATE) (CONCRETE)	LF	8,101	\$3.45	\$27,948.45
102-74-1	TEMPORARY BARRICADE (TYPES I, II, DI, VP & DRUM)	ED	211,274	\$0.17	\$35,916.58
102-74-2	TEMPORARY BARRICADE (TYPES III-6')	ED	17,155	\$0.32	\$5,489.60
102-76	ADVANCE WARNING ARROW PANEL	ED	903	\$8.65	\$7,810.95
102-77	HIGH INTENSITY FLASHING LIGHTS, TEMPORARY, TYPE B	ED	18,058	\$0.27	\$4,875.66
102-78	TEMPORARY REFLECTIVE PAVEMENT MARKER	EA	2,177	\$4.30	\$9,361.10
102-79	TYPE C STEADY BURN LIGHT, TEMP, BARRIER WALL MOUNT	ED	9,480	\$0.44	\$4,171.20
102-89-7	TEMPORARY CRASH CUSHION	LO	34	\$1,319.00	\$44,846.00
104-10-3	SEDIMENT BARRIER	LF	11,000	\$2.80	\$30,800.00
104-16	ROCK BAGS	EA	76	\$6.75	\$513.00
110-1-1	CLEARING AND GRUBBING (INCLUDES REMOVAL OF ASPHALT, EXIST. DRAINAGE PIPES, MANHOLES AND CATCH BASINS)	AC	9	\$10,038.00	\$93,152.64
110-4	REMOVAL OF EXISTING CONCRETE SIDEWALK, CURB & GUTTER	SY	13,556	\$10.50	\$142,338.00
120-1	EXCAVATION, REGULAR	CY	28,654	\$12.00	\$343,848.00
120-6	EMBANKMENT	CY	360	\$18.85	\$6,786.00
160-4	TYPE B STABILIZATION	SY	34,659	\$3.50	\$121,306.50
285-709	BASE OPTIONAL GROUP 9	SY	34,659	\$14.30	\$495,623.70
327-70-1	MILLING EXISTING ASPHALT PAVEMENT (1" AVG. DEPTH)	SY	670	\$9.95	\$6,666.50
334-1-13	SUPERPAVE ASPHALTIC CONCRETE (TRAFFIC C) (2")	TN	3,893	\$139.00	\$541,127.00
337-7-73	ASPHALT CONC FRICTION COURSE (INC RUBBER) (FC-9.5) (1")	TN	1,947	\$151.00	\$293,997.00
	INLETS D-3	EA	4	\$3,500.00	\$14,000.00
	INLETS (CURB USF 5129) (<10)	EA	45	\$3,750.00	\$168,750.00
425-1-311	INLETS (CURB TYPE P-1) (<10)	EA	1	\$5,945.88	\$5,945.88
425-1-341	INLETS (CURB TYPE P-4) (<10)	EA	3	\$4,663.99	\$13,991.97
425-1-351	INLETS (CURB TYPE P-5) (<10)	EA	2	\$4,175.00	\$8,350.00
425-1-361	INLETS (CURB TYPE P-6) (<10)	EA	8	\$4,553.00	\$36,424.00
425-1-441	INLETS (CURB TYPE J-4) (<10)	EA	1	\$8,350.00	\$8,350.00
425-1-452	INLETS (CURB TYPE J-5) (>10)	EA	2	\$6,862.90	\$13,725.80
425-1-461	INLETS (CURB TYPE J-6) (<10)	EA	8	\$5,887.00	\$47,096.00
	MANHOLES (P-7T) (<10)	EA	8	\$3,550.00	\$28,400.00
	MANHOLES (J-7T) (<10)	EA	24	\$7,000.00	\$168,000.00
	SPECIAL DRAINAGE STRUCTURE (OVERFLOW STRUCTURES)	EA	2	\$10,000.00	\$20,000.00
425-5	MANHOLES , ADJUST	EA	111	\$155.00	\$17,205.00
425-6	VALVE BOXES, ADJUST	EA	192	\$155.00	\$29,760.00
430-175-118	PIPE CULVERT OPTIONAL MATERIAL (STORM AND DRAIN CROSS)(18")	LF	1,963	\$48.00	\$94,224.00
430-175-136	PIPE CULVERT OPTIONAL MATERIAL (STORM AND DRAIN CROSS)(36")	LF	3,122	\$75.00	\$234,150.00
443-70-6	FRENCH DRAIN 36"	LF	2,040	\$156.00	\$318,240.00
	BAFFLE	EA	20	\$350.00	\$7,000.00
520-1-10	CURB & GUTTER (TYPE F)	LF	12,323	\$20.40	\$251,389.20
520-30	VALLEY GUTTER	LF	46	\$20.00	\$920.00
522-1	SIDEWALK CONCRETE (4")	SY	7,742	\$40.40	\$312,776.80
522-2	SIDEWALK CONCRETE (6")	SY	831	\$44.45	\$36,937.95
522-4	BUS SHELTER - PAD	SY	30	\$165.00	\$4,950.00
527-2	DETECTABLE WARNINGS	SF	1,167	\$29.00	\$33,843.00
1644-800	FIRE HYDRANT, RELOCATE	EA	16	\$2,828.00	\$45,248.00
SUBTOTAL ROADWAY					\$4,351,378.58

SBE G/S
 \$201,642.64
 1.6%

SBE-CONST
 CONCRETE
 \$606,973.95
 4.9%



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Engineer's Opinion of Probable Cost (30%)

ITEM NO.	ITEM DESCRIPTION	UNIT	EST. QTY	UNIT COST	TOTAL COST
700-1-11	SIGN SINGLE POST (LESS THAN 12 SQ. FT.)	AS	59	\$216.00	\$12,744.00
700-1-50	SIGN EXISTING (RELOCATE)	EA	33	\$265.00	\$8,745.00
700-1-60	SIGN EXISTING (TO BE REMOVED)	EA	54	\$48.00	\$2,592.00
706-3	RETRO-REFLECTIVE PAVEMENT MARKER (YELLOW/YELLOW)	EA	328	\$3.20	\$1,049.60
706-3	RETRO-REFLECTIVE PAVEMENT MARKER (WHITE/RED)	EA	275	\$3.20	\$880.00
711-11-101	6" SOLID TRAFFIC STRIPE (WHITE)	LF	10,070	\$0.66	\$6,600.81
711-11-123	12" SOLID TRAFFIC STRIPE (WHITE)	LF	3,879	\$1.40	\$5,430.60
711-11-125	24" SOLID TRAFFIC STRIPE (WHITE)	LF	733	\$3.25	\$2,382.25
711-11-160	PAVEMENT MESSAGES	EA	40	\$108.00	\$4,320.00
711-11-170	DIRECTIONAL ARROWS	EA	7	\$64.90	\$454.30
711-11-201	6" SOLID TRAFFIC STRIPE (YELLOW)	LF	8,632	\$0.66	\$5,697.12
711-11-224	18" SOLID TRAFFIC STRIPE (YELLOW)	LF	69	\$2.15	\$148.35
711-11-251	6" (10-30) SKIP TRAFFIC STRIPE (YELLOW)	GM	1.65	\$1,394.00	\$2,300.10
SUBTOTAL PAVEMENT MARKING AND SIGNAGE					\$53,344.13
620-1-1	GROUNDING ELECTRODE	LF	1820	\$11.00	\$20,020.00
715-1-113	LIGHTING CONDUCTORS (F&I) (No 4) Stabiloy Aluminum	LF	33075	\$1.80	\$59,535.00
715-2-111	CONDUIT (3/4" PVC SCH 40) (UNDERGROUND)	LF	930	\$12.00	\$11,160.00
715-2-115	CONDUIT (F&I) (UNDERGROUND) (PVC SCH 40) (2")	LF	10500	\$13.10	\$137,550.00
715-14-11	PULL BOX	EA	100	\$735.00	\$73,500.00
715-500-1	POLE CABLE DISTRIBUTION SYSTEM (CONVENTIONAL)	EA	103	\$1,639.00	\$168,817.00
715-511-145	LIGHT POLE COMPLETE	EA	103	\$5,570.00	\$573,710.00
715-7-11	LOAD CENTER	EA	2	\$1,298.00	\$2,596.00
SUBTOTAL LIGHTING					\$1,046,888.00
	Tree Type A (Medium) 10'-12' ht, 5' sp, 2" DBH	EA	107	\$450.00	\$48,150.00
	Tree Type B (Large) 14'-16' ht., 7"sp, 3" DBH	EA	24	\$800.00	\$19,200.00
	Tree Type C (Small) 8'-10' ht., 4' sp, Tree Form	EA	26	\$350.00	\$9,100.00
	Pervious Pavement (Flexible Pervious ADA Pavement)	SF	8550	\$15.00	\$128,250.00
SUBTOTAL LANDSCAPING					\$204,700.00
	NE 2nd Avenue & 20th Street	LS	2	\$250,000.00	\$500,000.00
	NE 2nd Avenue & 21st Street	LS	4	\$250,000.00	\$1,000,000.00
	NE 2nd Avenue & 29th Street	LS	4	\$250,000.00	\$1,000,000.00
	NE 2nd Avenue & 36th Street	LS	3	\$250,000.00	\$750,000.00
SUBTOTAL SIGNALIZATION					\$3,250,000.00
102-1	MAINTENANCE OF TRAFFIC (PWWM)	LS	1	\$902,794.30	\$902,794.30
101-1	MOBILIZATION (PWWM)	LS	1	\$135,413.15	\$135,413.15
SUBTOTAL MOT AND MOBILIZATION					\$1,038,207.45
SUBTOTAL GENERAL (PWWM)					\$9,944,518.16
	PWWM CONTINGENCY FUND (10% OF PWWM SUBTOTAL GENERAL)	LS	1		\$994,451.82
TOTAL CONTINGENCY FUND (10% OF SUBTOTAL GENERAL)					\$994,451.82
SUB-TOTAL CONSTRUCTION					\$10,938,969.97
	PERMIT ALLOWANCE (PWWM)	LS	1	\$18,000.00	\$18,000.00
102-14	TRAFFIC CONTROL OFFICER	MH	2,371	\$51.30	\$121,632.30
TOTAL CONSTRUCTION					\$12,345,016.62
	DESIGN (PWWM)	LS	1	\$690,486.14	\$690,486.14
SUB-TOTAL DESIGN					\$690,486.14
TOTAL DESIGN-BUILD					\$13,035,502.76

SBE-CONST
 PAVEMENT
 MARKING
 & SIGNAGE
 \$53,344.13
 0.4%

SBE-CONST
 LANDSCAPING
 \$76,450.00
 0.6%

Adding \$1,266,414.35 from WASD