

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.: S-951

*Reference corresponding project number when submitting a work order

Contract/Project Title: WATER AND WASTEWATER SERVICES TO COMMERCIAL PROPERTIES GREEN TECH CORRIDOR-S-8 - GRAVITY BASIN 30-0073

Description/Scope of Work: See Attached

Estimated Cost: 6065626 Funding Source: General funds

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.
Along NW 27 Ave. in Section 27, Township 53, Range 41

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
N/A		
N/A		
N/A		

Comments:..

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CSBE) See attachment

Sub-Trade	Est. Cost	% of Item to Base Bid	Availability
SBE-Cons	\$866,201	15.54%	
SBE-G&S	\$370,993	6.12%	
	\$	%	

RECOMMENDATION

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

Basis for Recommendation: Due to limited availability, it has been determined that the suggested measures per the attached is appropriate for this project.

Date submitted to DBD: 09/16/2019

Contact Person: Isaac Smith

Telephone No.: 786-552-8989

**DEPARTMENTAL INPUT
CONTRACT MEASURE ANALYSIS AND RECOMMENDATION**

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

From: Isaac Smith, Chief
Construction Contracts Division

Department: Miami-Dade Water and Sewer Department

Contract Title: WATER AND WASTEWATER SERVICES TO COMMERCIAL PROPERTIES
GREEN TECH CORRIDOR-S-8 - GRAVITY BASIN 30-0073

Contract No.: S-951

Estimate Amount: \$6,065,626.60 [\$5,514,206.00 Construction + \$551,420.60 Contingency]

Funding Source: EW 647, GOB Funding & EW 270, Future WASD Revenue Bonds

Small Business Enterprise – Construction – 15.54% Analysis for Recommendation (Attached)



Department Head or Authorized Agent

DESCRIPTION OF PROJECT:

This project is one in a series of projects that are being processed under Section 2-8.2.12 of the Code, entitled Miami-Dade Water and Sewer Department Consent Decree and Capital Improvement Programs Accelerate Ordinance.

The Project, including mobilization and demobilization, consists of furnishing and installing approximately 3,485 linear feet of 8-inch PVC 900 of gravity sanitary sewer pipe; 90 laterals with cleanout; 16 reinforced concrete manholes; 9,786 linear feet of 12-inch zinc-coated ductile iron pipe and fittings; 26 linear feet of 8-inch zinc-coated ductile iron pipe and fittings; 163 linear feet of 6-inch zinc-coated ductile iron pipe and fittings; 20 linear feet of 4-inch zinc-coated ductile iron pipe and fittings; resilient seated gate valves; fire hydrant assemblies with guard posts; removal of three (3) existing fire hydrants; furnishing and installing water services; making fourteen (14) tapping connections including installing tapping sleeves and valves; making six (6) solid connections to existing water mains including solid sleeves; removing 226 linear feet of existing gravity; removing two (2) existing sanitary sewer manholes; removing three (3) existing plugs and connecting to existing water mains including furnishing all fittings necessary for connections; furnishing and constructing flushing valve outlets; furnishing and constructing air release valve assemblies; polyethylene encasement for ductile iron pipe and fittings, if ordered by the Engineer; sheeting and shoring ordered left in place by the Engineer; additional suitable backfill, if needed; furnish all materials, equipment and supplies necessary for cleaning, testing and disinfecting the mains; removal of existing asphalt pavement and sod; removal, transport and legal disposal of demolition material including unsuitable material; placing existing water mains out of service upon completion of work; replacement of traffic loop detection assemblies; traffic control; temporary and permanent replacement of any sidewalk, sod, pavement markings, pavement and/or driveway damaged by construction and all other appurtenant and miscellaneous items and work for a complete and fully functional installation.

Due to maintenance of traffic requirements in the FDOT roadway, night work is expected to be required by FDOT for lane closures. Regarding the need to reestablish the survey corridor prior to mobilization as indicated in the construction plans, the Contractor shall obtain the approval of survey baseline by Surveyor and the Engineer to ensure that the proposed improvements are installed within the public right-of-way per MDWASD standards to avoid encroaching into public property.

The Project is located in Section 27, Township 53, Range 41, within the City of Miami, Miami-Dade County, Florida.

MINIMUM CONTRACTOR EXPERIENCE:

Bidders shall submit proof that their firm (which can include the experience of key supervisory employees that would man the project) has successfully completed at least three (3) comparable projects meeting the following criteria:

1. In addition to the license requirements, the Bidder must have a minimum of three (3) years of experience, under its current business name (which can include the experience of key supervisory employees that would man the project), in the construction of roadway / horizontal projects of similar scope and scale involving public right-of-way construction / installation / repair / replacement of main water distribution systems and/or main sanitary sewer collection systems, and maintenance of vehicular traffic, supported by references for three (3) projects completed within the past five (5) years. Submitted reference Projects must demonstrate that the Bidder served as the Prime Contractor for the referenced Projects provided.
2. The Bidder must demonstrate that it has full-time personnel with the necessary experience to perform the Project's Scope of Work. This experience shall include work in successfully completed projects performed by the identified personnel whose bulk of work performed in the public right-of-way is similar in detail to the Project's Scope of Work described in these Solicitation Documents. Demonstrate the experience requirement by:
 - a. Providing a detailed description of at least three (3) projects similar in detail to the Project's Scope of Work described in these Solicitation Documents and in which the Bidder's identified personnel is currently engaged or has completed within the past five (5) years. List and describe the aforementioned projects and state whether the work was performed for the County, other government clients, or private entities.
 - b. For each project listed, the pipe installation shall have been completed and accepted by the project owner prior to the bid submittal date.
 - c. For each project listed, the Bidder shall have self-performed at least forty percent (40%) of the negotiated construction cost.

CONSIDERATIONS FOR ANALYSIS:

1. This project involves installation of a ductile iron water mains, consumer line water services, sanitary sewer collection system, including laterals and precast manholes.
2. The project involves the construction of gravity sanitary sewers at cut depths of 10 to 12 feet below surface, which requires the use of large equipment and capable of deeper trench installations.
3. The project requires the removal of contaminated soils, providing clean fill and viton gaskets in areas of known contamination.
4. Bidders shall provide sewer by-pass pumping and shall also provide the services of a licensed Professional Surveyor and Mapper.
5. The work also includes utility pipe construction within the FDOT Right-of-Way.
6. Recommended opportunity for SBE-Construction participation is in the area of roadway pavement restoration, milling, installation of blow-off assemblies and surface restoration, including replacement of sod and shrubs, tree protection, trimming and root pruning.

LICENSES: The types of licenses required are: General Engineering, State Underground, Pipeline and/or other categories as applicable by Chapter 489 of the Florida Statutes or Chapter 10 of Miami-Dade County Code.

COMMUNITY WORKFORCE PROGRAM

CWP PARTICIPATION: Not Applicable, project is not located in a DTA.

Analysis For SBE Participation - Contract S-951					
Item	Description	Cost (\$)	Availability	SBE-Cons	SBE-G&S
1	Mobilization & Demobilization	455,637.00	7.51%		
2	For Surveying by a Fla. Licenced PSM	10,000.00	0.16%		
3	Furnishing 12" DIP WM	978,600.00	16.13%		
4	Installing 12" DIP WM	1,018,801.00	16.80%		
5	Furnishing 8", 6" & 4" - DIP, valves & fittings	14,693.00	0.24%		0.24%
6	Furnishing 12" Gate Valves	98,000.00	1.62%		1.62%
7	Installing 12" Gate Valves	84,000.00	1.38%		
8	Making Tapping connections	218,000.00	3.59%	1.80%	
9	Constructing Fire Hydrant Assemblies	69,300.00	1.14%		
10	Furnishing & Installing - 1" & 2" Services	95,000.00	1.57%	1.57%	
11	Furnishing C900 PVC Pipe	139,400.00	2.30%		2.30%
12	Installing C900 PVC Sewer	295,706.00	4.88%	4.88%	
13	Furnishing Sewer Precast MH	92,180.00	1.52%		
14	Installing Sewer Precast MH	128,430.00	2.12%		
15	Viton Gaskets - Contaminated areas	30,000.00	0.49%		
16	Furnishing 8" & 6" Wye & Tee Fittings	32,450.00	0.53%		0.53%
17	Furnishing 6" C900 PVC Pipe - Laterals	86,450.00	1.43%		1.43%
18	Installing 6" PVC & Sewer Laterals	290,000.00	4.78%	4.78%	
19	Dewatering & Disposal of Sewer	81,000.00	1.34%		
20	By-Pass Pumping - Sanitary Sewer	60,000.00	0.99%		
21	Removal & Disposal - Contaminated Soils	138,945.00	2.29%		
22	Constructing Limerock Base	76,102.00	1.25%	1.25%	
23	Constructing Asphalt Paving	409,817.00	6.76%		
24	Replacing Pavement Markings	30,000.00	0.49%		
25	Sidewalk, Curb & Gutter Repairs	67,495.00	1.11%	1.11%	
26	Replacing Sodding damaged by Constr.	9,000.00	0.15%	0.15%	
27	Furnishing Traffic Control	505,200.00	8.33%		
28	SUBTOTAL	5,514,206.00		15.54%	6.12%
29	Contingency Allowance	551,420.60	9.09%		
30	SBE TOTAL	6,065,626.60	100.00%		

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CONSIDERATIONS FOR ANALYSIS:

1. This project involves installation of over 9,786 linear feet of diameter ductile iron water main and over 3,485 linear feet of C900 sanitary sewer mains.
2. The project also involves numerous interconnections to existing water mains and sanitary sewer collection systems. The construction required for this project requires the use of very large machinery to accommodate the depth and trench widths required for large diameter pipe installation
3. The construction will be required in an area with possible contaminated soils. The contractor will be required to dispose of contaminated soils, provide clean fill and install viton gaskets, as recommended by his Certified Industrial Hygienist.
4. The Department has evaluated the project for possible opportunities for participation in the area of SBE – Goods and Services. Based on the scope and nature of the work, we have concluded that there are limited opportunities for participation in this project.
5. The possible areas of subcontracting are in the area of Maintenance of Traffic, Pavement Marking, Milling, Paving, concrete curb and gutter restoration, Surveying, By-Pass Pumping and Traffic Loop Restoration.
6. **Therefore, for SBE- Goods and Services the recommended participation goal of 6.12%, as shown below..**

Analysis for Small Business Enterprise – Goods and Services Recommendation				
Item	Goods & Services	Prime Contractor	Sub-Contractor	SBE Availability
1.	GOODS: Ductile Iron Pipe & Fittings C900 Sewer Pipe & Fittings Resilient Seated Gate Valves Limerock Base and Subbase Fire Hydrants	X X X X X	X X X X X	X X X X
2.	SERVICES Utility Piping Connections Furnishing Traffic Control Replacing Pavement Markings Roadway Milling Permanent Paving Sodding Replacement By-Pass Pumping Traffic Loops Disposal – Contaminated Soil	X X X	 X X X X X X X X	 X X X X X