

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-905R

*Reference corresponding project number when submitting a work order

Contract/Project Title: CD 5.5 Upgrade of Pump Station 0415

Description/Scope of Work: See Attached

Estimated Cost: 7354001 **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.
Pump Station 0415 located at 3750 NW 181st Street, Miami Gardens, Florida

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:Specialized mechanical work involving sophisticated variable Frequency Drive units and controls. The project includes additional specialized construction including sheet piling, structural rehabilitation and generator rehabilitation.

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CSBE) See attachment

Sub-Trade	Est. Cost	% of Item to Base Bid	Availability
	\$	0%	
	\$	0%	
	\$	0%	

RECOMMENDATION

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

Basis for Recommendation:This is the rehabilitation and upgrading of an existing in service sanitary sewer pump station required for compliance with the EPA Consent Decree by January 27, 2019. Pumps and motors are being replaced with a sophisticated Variable Frequency Drive units requiring expertise in control circuitry and system integration. All standard trade work has been identified on attached.

Date submitted to DBD: _____

Contact Person:Isaac Smith

Telephone No.:786-552-8255

**DEPARTMENTAL INPUT
CONTRACT MEASURE ANALYSIS AND RECOMMENDATION**

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

From: Isaac Smith, Manager
Construction Contracts Section

Department: Miami-Dade Water and Sewer Department

Contract Title: CD 5.5 UPGRADE OF PUMP STATION 0415

Contract No.: S-905R

Estimate Amount: \$7,354,001 [\$6,685,455 Construction + \$668,546 Contingency]

Funding Source: EW 660, Revenue Bonds Sold

Small Business Enterprise – Construction – 17.91%
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.

In general, the project consists of the construction of upgrades to Pump Station 0415, located in Miami Gardens, 3750 NW 181 Street, Section 52, Township 41, Range 08, Miami-Dade County, Florida 33055.

The scope of work consists of furnishing all materials, labor, and equipment necessary to rehabilitate and upgrade Sewage Pump Station 0415 which includes four (4) new vertical centrifugal pumps and motors rated at 300 horsepower, new pump station valves and piping, and an electrical building expansion to install new switchgear and variable frequency drives (VFDs). The upgrades also include the following structural work, architectural work, construction of a new electrical room, complete with HVAC system, refurbishing of the existing odor control room and installation of a new odor control system, replacement of louvers, partial demolition of masonry walls, concrete floors and concrete equipment supports, rehabilitation of wetwell, electrical upgrades, replacement of motor starters with VFDs, replacement of suction and discharge piping and valves, making asphaltic paving repairs, along with civil and site work, including installation of a vortex manhole, site restoration, generator rehabilitation and all other appurtenant and miscellaneous items and work for a complete, functional and satisfactory installation.

LICENSES: The types of licenses required are: State General Contractor, General Engineering Contractor 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 CONSTRUCTION:

SBE Construction Goal - 17.91%				
Analysis for Recommendation				
Item	Description	Estimated Cost	% of Item to Base Bid	SBE Availability
1	<u>GENERAL CONDITIONS</u>			
	a) Mobilization, including temporary facilities	\$ 305,752	\$ 305,752	4.16%
2	<u>SITWORK</u>			
	a) Clearing, grubbing, grading, erosion	\$ 24,389	\$ 404,012	5.49% SBE
	b) Demolition, hauling & disposal	\$ 211,966		
	c) Pavement Restoration	\$ 104,945		
	d) Landscaping	\$ 62,712		
3	<u>ARCHITECTURAL</u>			
	a) Masonry walls, stucco, doors & roofing	\$ 289,343	\$ 303,133	4.12% SBE
	b) Painting and Coating	\$ 13,790		
4	<u>POWER, PROCESS & CONTROLS</u>			
	a) Odor Control System & Canisters	\$ 228,464	\$ 1,695,952	23.06%
	b) Variable Frequency Drives & MCC	\$ 331,599		
	c) Control Panel & Appurtenances	\$ 527,911		
	d) Aux. PLC Panel & Systems Integrator	\$ 393,863		
	e) Generator Rehabilitation	\$ 214,115		
5	<u>YARD PIPING</u>			
	a) 16 & 24-inch piping & fittings	\$ 163,121	\$ 401,156	5.45% SBE
	b) 24-inch French Drain	\$ 81,567		
	c) Drainage System	\$ 73,239		
	d) Vortex Manhole	\$ 83,229		
6	<u>MECHANICAL</u>			
	a) Pumps, Motors & Accessories	\$ 1,701,196	\$ 2,658,337	36.15%
	b) Interior Piping & Fittings	\$ 218,919		
	c) Valves & Flow Control	\$ 520,511		
	b) By-Pass Pumping System	\$ 217,711		
7	<u>MECHANICAL</u>			
	a) HVAC	\$ 196,993	\$ 208,993	2.84% SBE
	b) Plumbing - Water Closet	\$ 12,000		
8	<u>CIVIL</u>			
	a) Sheet piling & Dewatering	\$ 160,000	\$ 708,121	9.63%
	b) Pump Station Structural Rehabilitation	\$ 548,121		
	SUB-TOTAL		\$ 6,685,455	
	Contingency allowance (10%)		\$ 668,546	9.09% Total SBE
	SBE TOTAL		\$ 7,354,001	100% 17.91%

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Small Business Development Division

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Department: Miami-Dade Water and Sewer Department


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Contract No.: S-905R

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Funding Source: EW 660, Revenue Bonds Sold

Small Business Enterprise – Goods & Services – 2.40%
Analysis for Recommendation (Attached)



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CONSIDERATIONS FOR ANALYSIS:

1. The project involves construction and upgrades to an existing regional sewage pump station. This undertaking includes furnishing and installation of very large, expensive equipment, such as: four (4) 300 horsepower pumps and motors with variable frequency drives, medium voltage switchgear and motor control centers

BREAKDOWN OF SBE-GOODS & SERVICES - 2.40%

Item	Amount
Temporary Facility	\$ 15,000.00
Drainage System	\$ 20,000.00
French Drain	\$ 5,245.00
Non-Process Plumbing	\$ 29,500.00
Landscaping (plants, soil, mulch, etc)	\$ 62,712.00
Stucco, Primer & Paint	\$ 20,000.00
Railing & Misc Metals	\$ 10,800.00
Thermal Moisture Protection	\$ 13,400.00
Total	\$ 176,657.00