

**DEPARTMENTAL INPUT  
CONTRACT MEASURE ANALYSIS AND RECOMMENDATION**

To: Laurie Johnson, Manager  
Small Business Development Division

From: Isaac Smith, Manager  
Construction Contracts Section

Department: Miami-Dade Water and Sewer Department

Contract Title: MASTER PUMP STATION NO. 3

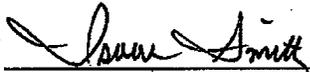
Contract No.: S-852

Estimate Amount: \$20,086,600 [\$18,260,600 Construction + \$1,826,000 (10%) Allowance Account]

Funding Source: EW 623, Plant Expansion Fund

**CSBE GOAL -2.6%**

**Analysis for Recommendation (SEE NEXT PAGE)**



Department Head or Authorized Agent

**DESCRIPTION OF PROJECT:**

The work of Contract No. S-852 is for the construction of proposed Master Pump Station No. 3, complete, to be located at 1110 SW 3<sup>rd</sup> Ave., in Section 38, Township 54, Range 41, of Miami-Dade County, Florida.

This project consists of furnishing all materials, labor and equipment necessary to construct proposed sewerage Master Pump Station No. 3, including, but not limited to, constructing two multilevel structures (pump station building and generator building); four (4) 300 horsepower centrifugal vertical non-clog sewage pumps and motors; furnishing and installing four (4) variable frequency drives; furnishing and installing four (4) 24-inch ball valves with hydraulic reservoir system and mechanical controls; furnishing and installing ductile iron piping, valves and fittings; furnishing and installing an odor control system; furnishing and installing a 1,500 kilowatt 4,160 Volt standby emergency diesel generator, one (1) 12,000 gallon diesel fuel storage tank with appurtenances, a 275 gallon diesel fuel day tank with fuel pump, air compressors, and associated valves, controls and piping diesel fuel pump supply and return lines, one (1) diesel fuel fill station; constructing a coffercell structure for the pump station building; furnishing and installing one (1) magnetic flow meter and flowmeter concrete vault; furnishing bridge crane, hoist, trolley and appurtenances; furnishing and installing air compressors, hydro-pneumatic accumulator and associated valves, controls and piping; furnishing and installing sampling equipment; furnishing and installing air conditioning system; constructing duct banks; furnishing and installing transformers, switchgears, instrumentation, motor control centers, battery system and appurtenances; furnishing and installing all conduits, power cables, instrumentation cables, fiber optic cables, control panels, fiber optic panels, operator console and appurtenances; providing the services of a system integrator; dewatering; furnishing and installing fire alarm system, grounding, lightning protection and appurtenances; furnishing and installing doors, overhead cooling doors, interior windows, access hatches and hardware; toilet room, building plumbing, drains, water and sewer services; all interior and exterior building finishes to include bathrooms, stucco, tile, counters and painting; providing the services of the manufacturers field technician for installation and startup; and all other appurtenant and miscellaneous items and work for a complete, functional and satisfactory installation.

**CWP IS NOT APPLICABLE**

**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.: 5-852

\*Reference corresponding project number when submitting a work order

Contract/Project Title: Master Pump Station No. 3

Description/Scope of Work: Construction of proposed sewerage Master Pump Station No.3 complete. (See Attached)

Estimated Cost: \$20,086,600                      Funding Source: EW 623 - Plant Expansion Fund

Location of Project (street address or beginning and ending points) i.e. 12345 NE 23<sup>rd</sup> Ct or Starts at 135 St. ends at 145 St.  
1110 SW 3 AVE, in Sect 38, Township 54, Range 41 of 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
	N/A	

Comments: Project is not in a DTA

**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: Known availability in areas identified. Balance of work involves specialized construction & work: sheet piling, auger cast piles, vertical turbine pumps with variable frequency drives & controls, including remote telemetry units, instrumentation and overall systems integration.

Date submitted to DBD: 4/4/2013

Contact Person: Isaac Smith

Telephone No.: (786) 268-5196

**Contract No. S-852 - Master Pump Station No. 3**

**Analysis for CSBE Goal - 2.6 %**

Item	Description	Estimated Cost	% of Item to Base Bid	CSBE Availability
1	<b>GENERAL CONDITIONS</b> a) Preparatory work, Mobilization and Shop drawing submittal	\$ 892,000	4.44%	
2	<b>SITework</b> a) Drainage System & Catch Basins \$ 35,000 b) Concrete Sidewalk & Curb \$ 11,300 c) Excavation \$ 18,500 d) Placing Aggregate for Fill \$ 6,400 e) Dewatering \$ 40,000 f) Retaining Wall \$ 14,600 g) Fence Removal & Demolition \$ 2,100 h) Clearing & Grubbing \$ 9,400 i) New Chain Link Fence & Gate \$ 21,500 j) Final Cleanup & Offsite Hauling \$ 10,200 j) Painting & Coatings \$ 20,000	\$ 189,000	0.94%	CSBE
3	<b>COFFERCELL &amp; SHORING</b> a) Crane Set-up \$ 51,600 b) Pilot Holes & Template \$ 121,500 c) Sheetpiling \$ 880,400 d) Walers Install & Remove \$ 155,800 e) Auger cast Piles & Load Test \$ 1,401,600 f) Controlled Low Strength Material (CLSM) \$ 335,000	\$ 2,945,900	14.67%	
4	<b>PUMP STATION BUILDING</b> a) Architectural / Bridge Crane / HVAC \$ 242,800 Doors \$4,500 Overhead Doors \$7,000 Glass Block Windows \$8,000 Stucco \$47,400 Bridge Crane \$55,000 Plumbing & HVAC \$52,800 Single Ply Memb. Roofing \$68,100  Subtotal without Arch. Items --->>>> \$ 8,102,900 b) Structural & Wall Panels \$ 1,672,700 c) SOG, Tremie Seal & Suspended Slab \$ 889,300 d) Railing, Grating & Hatches \$ 308,000 e) Vertical Turbine Sewage Pumps & Appurt. \$ 2,495,400 f) Odor Control System \$ 314,000 g) Mech. Process Equipment \$ 1,038,000 h) VFD's & Elec. Process Equipment \$ 1,385,500	\$ 242,800	1.21%	CSBE
		\$ 8,102,900	40.34%	

5	<b>GENERATOR BUILDING</b>				
	a) Architectural / Bridge Crane / HVAC	\$ 88,000	\$ 88,000	0.44%	CSBE
	Doors	\$4,200			
	Interior Windows	\$6,600			
	Overhead Doors	\$12,700			
	Stucco	\$24,700			
	Generator Bldg HVAC	\$22,700			
	Single Ply Memb. Roofing	\$17,100			
	Subtotal without Arch. Items	---->>>	\$ 3,859,000	19.21%	
	b) Generator Equip & Appurtenances:	\$ 966,000			
	c) Structural & Wall Panels	\$ 201,000			
	d) 12,000 Gal. Diesel Fuel Tank & Day Tank	\$ 175,000			
	Fill-up, Fuel Piping and appurtenances				
	e) Electrical Switchgear & MCC	\$ 622,000			
	f) Transformers, Lightning Protection	\$ 1,322,000			
	g) Elec. Process Equipment	\$ 573,000			
6	<b>FACILITY INSTRUMENTATION</b>		\$ 1,941,000	9.66%	
	a) Pump Station Instrumentation & Controls,	\$ 856,000			
	PLC's, RTU's & Transmitters				
	b) Programming & Calibration	\$ 80,000			
	c) Systems Integration & Startup	\$ 380,000			
	d) Hydropneumatic System & Hydraulic Valves	\$ 625,000			
	<b>SUB-TOTAL</b>		\$18,260,600		
	Contingency allowance (10%)		\$ 1,826,000	9.09%	
	<b>Total</b>		\$20,086,600	100%	

<b>CSBE TOTAL</b>	<b>2.59%</b>
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