

## SBD - CM Review Form

<b>To:</b>	Project Review & Analysis - Construction		
<b>From:</b>	SBD Engineer - Eric Perez		
<b>Department:</b>	Miami Dade Water & Sewer Department	<b>Contact:</b>	Issac Smith
<b>Date:</b>	2/11/2019	<b>Resubmittal:</b>	

<b>PROJECT NUMBER:</b>	S-940
<b>PROJECT TITLE:</b>	CD 5.9 UPGRADE AND REPLACEMENT OF REGIONAL PUMP STATION NO. 0301
<b>PROJECT LOCATION:</b>	350 Sunny Isles Blvd, Miami, FL

**SCOPE OF WORK/DESCRIPTION:** The work consists of furnishing materials, labor, and equipment necessary for the construction of a new regional pump station. The new facility will replace the existing pump station. This project consists of demolition of the existing pump station and the furnishing and installing the following: Trench wet well construction; Four (4) 110 Horsepower Pumps & VFD motors, piping, and equipment into the wet well; Valves, piping and fitting (including stainless steel plug and check valves); Flow meter and flow control; Manholes; Odor control; Electrical and generator building; Generator Set and Aboveground Fuel Tank; Hoist and Trolley systems, including monorail support system; Wooden Perimeter fence and access gate; and all required By-pass pumping.

**LICENSES:** The types of licenses required are: State General Contractor (Prime), General Engineering Contractor (Prime), General Mechanical(sub), Demolition(Sub), Air Conditioning(Sub), Paving (Sub, Plumbing – Master (Sub), Underground Utility Excavation (Sub), Electrical (High Voltage) (Sub).and/or other categories as applicable by Chapter 489 of the Florida Statutes or Chapter 10 of Miami-Dade County Code.

**SPECIAL REQUIREMENTS:** This regional sewage pumping station is a critical facility for WASD and is located in an environmentally sensitive area between a State Highway and a tributary of the Intracoastal Canal. Therefore, in addition to license requirements above, bidders shall also meet the minimum experience listed below:

- a) The Bidder shall demonstrate relevant experience of directing/managing specialty contractors such as structural, electrical and instrumentation subcontractors by listing a least three (3) projects completed as the prime contractor within the last ten (10) years at sewage facilities, with a minimum total construction cost of three million dollars (\$3,000,000) or more each.
  
- b) The Bidder, as prime contractor, shall have successfully completed the installation or removal and replacement of pumps and motors for at least one (1) raw sewage pump station within the last ten (10) years which included the Installation of submersible centrifugal pumps (minimum 100 horsepower)
  
- c) The Bidder or Bidder's Electrical Subcontractor shall have successfully completed at least one (1) project demonstrating experience with 460 VAC power supply and pump station controls/integration within the last ten (10) years meeting the following requirements: 1. 460 VAC switchgear 2. 460 VAC variable frequency drives 3. PLC auxiliary control panel 4. Pump Station Control System Integrator

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d) The Prime Contractor or Subcontractor responsible for installing new wet well shall have completed at least three (3) projects within the past ten (10) years demonstrating:

1. Experience with deep excavations, dewatering and concrete placement near coastal/marine waterways
2. Experience mitigating environmental issues raise during construction near wetlands/marine/coastal waterways

TRADES/SUBTRADES	AMOUNT		COMMENTS
<b>General Contractor/ General Engineering Contractor</b>			
Mobilization and Demobilization	\$411,450.00		
Constructing masonry walls, stucco, thermal and moisture protection, doors, decorative screen, and roofing for the electrical building	\$245,320.00		*Possible opportunities for Small Businesses
Odor control equipment and material	\$291,930.00		
Miscellaneous metals	\$201,790.00		*Possible opportunities for Small Businesses
Auger-cast piles and reinforced concrete structural elements	\$474,080.00		
Coating of the sewage wet well	\$188,570.00		*Possible opportunities for Small Businesses
Trench wet well	\$517,450.00		
Sewer By-pass Pumping System	\$92,045.00		
Generator set, complete with fuel storage tank & appurtenances	\$419,690.00		
French drain, inlets, drainage piping	\$84,080.00		*Possible opportunities for Small Businesses
Sanitary Sewer Manholes greather than 10 ft. deep	\$215,650.00		
<b>General Mechanical/Plumbing/HVAC Contractor</b>			
HVAC equipment and materials	\$105,260.00		*Possible opportunities for Small Businesses
Furnishing Stainless Steel Plug & Check Valves	\$262,680.00		
Installing Stainless Steel Plug & Check Valves	\$168,440.00		

TRADES/SUBTRADES	AMOUNT		COMMENTS
Flow Meter & Flow Control	\$148,710.00		
Furnish & Install 110 HP Submersible Sewage Pumps	\$564,646.00		
Furnishing HDPE piping and fittings	\$127,420.00		
Installing HDPE piping and fittings	\$94,150.00		
Furnishing all stainless steel piping and fittings	\$315,235.00		
Installing all stainless steel piping and fittings	\$216,130.00		
Furnishing all C900 PVC piping and fittings	\$64,300.00		
Installing all C900 PVC piping and fittings	\$43,940.00		*Possible opportunities for Small Businesses
Mechanical work & Specialities	\$92,960.00		
<b>General Electrical/High Voltage Contractor</b>			
Control System Integrator (CSI) and PLC Auxiliary Panel	\$291,800.00		
Furnish & Install Variable Frequency Drives (VFD) units	\$754,050.00		



TRADES/SUBTRADES	AMOUNT		COMMENTS
Electrical panel boards, switchgear, MCCs and all other electrical and Control equipment and materials	\$604,520.00		*Possible opportunities for Small Businesses
<b>Demolition/Paving/Underground Utility Excavation</b>			
Sitework: clearing, grubbing, excavating, etc.	\$277,950.00		*Possible opportunities for Small Businesses
Demolition, hauling and disposal	\$496,840.00		
Concrete pavement and grading of parking lot and driveway entrance	\$90,500.00		
<b>Painting/Landscape</b>			
Painting and coating of the electrical building	\$87,990.00		*Possible opportunities for Small Businesses
Landscaping	\$41,830.00		
<b>SubContractor</b>			
Hoist and Trolley systems, structural monorail support system	\$101,110.00		
<b>BASE TOTAL</b>	\$8,092,516.00	90.91%	
Contingency Allowance (10% of Base Estimate)	\$809,251.60	9.09%	
<b>TOTAL AMOUNT</b>	\$8,901,767.60	100.00%	

Small Business Development Signature: 

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**\*Trades/Sub-Trades identified for possible subcontracting opportunities by SBD CM**

**WASD is recommending 14.72%**

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