

SBD - CM Review Form

To:	Project Review & Analysis - Construction		
From:	SBD CM - Eddy V. Etienne Jr.		
Department:	Water & Sewer Department	Contact:	Isaac Smith
Date:	9/10/2018	Resubmittal:	No

PROJECT NUMBER:	S-914
PROJECT TITLE:	CD 1.11 GENERAL ELECTRICAL DESIGN – SUBSTATIONS 9, 10, 11, AND 12
PROJECT LOCATION:	8950 SW 232nd St, Miami, FL 33190

SCOPE OF WORK/DESCRIPTION: The scope of work includes, but is not limited to, furnishing all materials, labor, and equipment necessary for the electrical improvements for Substations 9, 10, 11 and 12. The project generally includes, but is not limited to, demolition and replacement of existing electrical transformer and switchgear equipment and panels, electrical busduct, conduits, and cabling; associated instrumentation and controls; and modifications to the existing substation buildings, including: replacement of existing built-up roofing, new interior and exterior lighting, power and lighting panels, new doors, louvers, equipment pads, exhaust fans, and air conditioning and filtration equipment; and new sidewalks, fencing, and site grading. Major portions of the work includes:

1. Installation of two (2) new, customized 2000 KVA liquid-filled transformers
2. Installation of new arc-resistant 480V switchgears, including a remote racking mechanism to remove switchgear breakers.
3. Installation of new electrical power and lighting panels, transformers, conduit, cabling, and lighting.
4. Installation of new 15KV feeder cables to the existing Motor Control Centers for Substations 9 and 10.
5. Installation of new 480V feeder cables in the existing conduits for Clarifiers 5 through 8 in Substation 10.
6. Installation of new LED lighting for the interior and exterior of each substation building.
7. Installation of a new fire alarm system for each substation building that will connect to the existing Simplex plant-wide fire alarm system.
8. Installation of a new fire extinguisher for each substation building.
9. Demolition of the existing 1000 KVA transformers in each substation building.
10. Demolition of the existing 480V switchgear in each substation building.
11. Installation of new concrete equipment pads for transformers and switchgears.
12. Replacement of existing built up roof with a new SBS bituminous membrane roofing for each substation building.
13. Installation of new transformer louvers and associated concrete sidewalk and curb.
14. Installation of replacement and new doors.
15. Repairs to the existing structure from demolition and from installation of new appurtenances.
16. Painting interior and exterior of each substation building.

SPECIAL REQUIREMENTS: The Contractor or Contractor’s Electrical Subcontractor shall have successfully completed a minimum of three (3) projects demonstrating experience with medium or high voltage power supply systems, including transformers and switchgear.

TRADES/SUBTRADES	AMOUNT	PERCENTAGE	COMMENTS
------------------	--------	------------	----------

Initial: EVE

Date: 9-10-18

TRADES/SUBTRADES	AMOUNT	PERCENTAGE	COMMENTS
Prime Contractor			
Mobilization & Demobilization	\$269,036.00	3.80%	Must meet the project special requirements. *Possible opportunities for Small Businesses.
For the demolition at Substations 9 & 10 and 11 & 12	\$23,414.40	0.33%	
For all Site Civil demolition and disposal at Substations 9 & 10 and 11 & 12	\$26,456.80	0.37%	
For all site Civil Work at Substation 9 & 10 and 11 & 12	\$4,793.00	0.07%	
For all structural and architectural work within Substation 9 & 10 and 11 & 12 buildings	\$96,306.40	1.36%	
For all work associated with replacement of the existing built up roof at Substation 9 & 10 and 11 & 12 buildings	\$42,700.20	0.60%	
For furnishing and installing all building mechanical Work at Substation 9 & 10 and 11 & 12.	\$93,208.00	1.32%	
For furnishing and installing electrical transformers and switchgear at Substation 9 and 10	\$1,600,372.00	22.63%	
For furnishing and installing electrical transformers and switchgear at Substation 11 and 12	\$1,467,317.00	20.74%	
For furnishing and installing all low voltage electrical Work at Substation 9 and 10	\$810,629.25	11.46%	
For furnishing and installing all low voltage electrical Work at Substation 11 and 12	\$78,731.25	1.11%	
For all Instrumentation and Control Work at Substation 9 and 10, including coordination with the Owner and the Owner's Integrator,	\$520,765.00	7.36%	
For all Instrumentation and Control Work at Substation 11 and 12, including coordination with the Owner and the Owner's Integrator,	\$413,633.00	5.85%	
For painting of the interior and exterior of Substation 9 and 10 and Substation 11 and 12 buildings	\$28,526.40	0.40%	
Final clean up	\$12,585.00	0.18%	
Sub Contractor			
For the demolition at Substations 9 & 10 and 11 & 12	\$93,657.60	1.32%	
For all Site Civil demolition and disposal at Substations 9 & 10 and 11 & 12	\$105,827.20	1.50%	
For all site Civil Work at Substation 9 & 10 and 11 & 12	\$19,172.00	0.27%	

Initial: EVE

Date: 9-10-18

TRADES/SUBTRADES	AMOUNT	PERCENTAGE	COMMENTS
For all structural and architectural work within Substation 9 & 10 and 11 & 12 buildings	\$144,459.60	2.04%	*Possible Opportunities for Small Businesses.
For all work associated with replacement of the existing built up roof at Substation 9 & 10 and 11 & 12 buildings	\$99,633.80	1.41%	
For furnishing and installing all building mechanical Work at Substation 9 & 10 and 11 & 12.	\$139,812.00	1.98%	
For furnishing and installing all low voltage electrical Work at Substation 9 and 10	\$270,209.75	3.82%	
For furnishing and installing all low voltage electrical Work at Substation 11 and 12	\$26,243.75	0.37%	
For painting of the interior and exterior of Substation 9 and 10 and Substation 11 and 12 buildings	\$42,789.60	0.60%	
BASE TOTAL	\$6,430,279.00	90.91%	
Contingency Allowance (10% of Base Estimate)	\$643,027.90	9.09%	
TOTAL AMOUNT	\$7,073,306.90	100.00%	

Small Business Development Signature:  Date: 9-10-18

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

WASD is recommending **13.31%**