

Memorandum



Date: January 7, 2014

To: Lester Sola, Director
Internal Services Department

From: Bill Johnson, Director
PortMiami 

Subject: Recommendation for Construction Contract Services for Seaboard Marine Cargo Terminal Redevelopment Phase II (4 of 5) – Project No. 2008-032.04

Your assistance in reviewing this request and forwarding the attached recommendation to the Division of Small Business Development (SBD) for consideration is respectfully requested.

It is recommended that SBD review the attached request for Community Small Business Enterprise (CSBE) and Community Workforce Program (CWP) measures for this project, in order to proceed with the advertisement and subsequent bidding of the project.

Seaboard Marine Cargo Terminal Redevelopment – Phase II (4 of 5): This multiphase improvement project consists of upgrading existing utility infrastructure and pavement for approximately eight (8) acres to improve the efficiency of cargo operations. The area within this phase of the project will primarily be used for heavy equipment and container storage. In addition, the improvements in this phase will consist of the following, but are not limited to: mobilization/demobilization; installation of new high mast lighting; electrical conduits; utility adjustments; improvements to pavement, existing drainage, and the water system; earthwork and related operations.

The construction cost estimate for this project is \$7,497,283.86, which includes 10% contingency.

The CSBE goal recommendation is 10.56% and the CWP recommendation is 10%.

Should you have any questions, please feel free to contact Juan Kuryla, Seaport Director Designee at (305) 347-4910.

Attachments

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.: 2008-032.04
*Reference corresponding project number when submitting a work order

Contract/Project Title: Seaboard Marine Cargo Terminal Redevelopment Phase II (4 of 5)

Description/Scope of Work: See Attached

Estimated Cost: \$7,497,283.86 **Funding Source:** Seaport Bonds / Loans

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.
South Quadrant of PortMiami

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

Comments: _____

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: _____

Date submitted to DBD: December 31, 2013

Contact Person: Gyselle Pino

Telephone No.: (305) 347-4833

Seaboard Marine Cargo Yard Terminal Redevelopment- Phase II (Project No.: 2008.032.04)
Engineer's Estimate of Probable Cost - Phase 4 of 5

Item No.	Item Description	Unit	Approximate Quantity	Unit Price	Amount (Per Item)	CSBE Analysis
GENERAL REQUIREMENTS						
G-1	General Requirements	LS	1		\$ 309,805.12	
G-2	Mobilization	LS	1		\$ 309,805.12	
				General Requirements Subtotal		\$ 619,610.24
EARTHWORK AND RELATED OPERATIONS						
E-1	Clearing, Demolition & Removal	Acre	7.26	\$ 6,500	\$ 47,205.72	\$ 47,205.72
E-2	Regular Excavation	CY	25,350	\$ 5.00	\$ 126,750.00	\$ 126,750.00
E-3	Geogrid Reinforcement (FDOT Type I or Approved Equal)(F&I)	SY	38,665	\$ 6.00	\$ 231,990.67	
E-4	Rework Limerock Base (LBR 100) (12")	SY	15,466	\$ 6.00	\$ 92,796.27	
E-5	12" Limerock Base (LBR 100)	SY	38,665	\$ 18.00	\$ 695,972.02	
E-6	16" Limestone Base (LBR 165)	SY	38,665	\$ 20.00	\$ 773,302.24	
E-7	Flowable Fill	CY	198	\$ 120.00	\$ 23,760.00	
				Earthwork and Related Ops. Subtotal		\$ 1,991,776.91
						\$ 173,955.72
PAVING						
P-1	3" Asphaltic Concrete P-401 (PG 76-22) (F&I)	TON	7,656	\$ 130.00	\$ 995,239.98	
P-2	3" Asphaltic Concrete P-401 (PG 70-22) (F&I)	TON	7,656	\$ 130.00	\$ 995,239.98	
P-3	3" Asphaltic Concrete P-401 (PG 64-22) (F&I)	TON	7,656	\$ 130.00	\$ 995,239.98	
				Paving Subtotal		\$ 2,985,719.95
DRAINAGE						
D-1	18" Pipe (F&I)	LF	300	\$ 50.00	\$ 15,000.00	
D-2	18" French Drain (F&I)	LF	610	\$ 140.00	\$ 85,400.00	
D-3	Deep Injection Well (Casing Well) (F&I)	LF	180	\$ 175.00	\$ 31,500.00	
D-4	Deep Injection Well (Open Hole) (F&I)	LF	120	\$ 85.00	\$ 10,200.00	
D-5	Special Drainage Structure w/Cover/Grate & Frame (F&I)	EA	2	\$ 27,500.00	\$ 55,000.00	
D-6	Drainage Manhole w/Cover & Frame (F&I)	EA	2	\$ 9,000.00	\$ 18,000.00	
D-7	Inlet w/ Grate & Frame (F&I)	EA	6	\$ 9,000.00	\$ 54,000.00	
D-8	Existing Drainage Inlets/Manholes (Top Adjustment)	EA	2	\$ 850.00	\$ 1,700.00	
D-9	Core Drill Existing Drainage Structure	EA	4	\$ 1,400.00	\$ 5,600.00	
D-10	Desilting Pipe	LF	1,045	\$ 5.00	\$ 5,225.00	
				Drainage Subtotal		\$ 281,625.00
UTILITY ADJUSTMENTS						
U-1	Adjust Existing Utility Manholes (Top Adjustment)	EA	2	\$ 925.00	\$ 1,850.00	
U-2	Adjust Electrical PullBox	EA	7	\$ 450.00	\$ 3,150.00	
U-3	Adjust Valve Boxes	EA	4	\$ 240.00	\$ 960.00	
				Utility Adjustments Subtotal		\$ 5,960.00
WATER						
W-1	8" DIP WM (F&I)	LF	950	\$ 40.00	\$ 38,000.00	
W-2	6" DIP WM (F&I)	LF	350	\$ 35.00	\$ 12,250.00	
W-3	6" 90 Degree DIP Bend (F&I)	EA	2	\$ 325.00	\$ 650.00	
W-4	8" DIP TEE (F&I)	EA	6	\$ 900.00	\$ 5,400.00	
W-5	8" x 6" DIP Reducer (F&I)	EA	8	\$ 260.00	\$ 2,080.00	
W-6	2" Flushing Valve Outlet Assembly (F&I)	EA	1	\$ 580.00	\$ 580.00	
W-7	2" Air Release Valve Assembly (F&I)	EA	4	\$ 740.00	\$ 2,960.00	
W-8	8" x 12" Tapping Sleeve & Valve W/Box (F&I)	EA	3	\$ 6,500.00	\$ 19,500.00	
W-9	8" x 8" Tapping Sleeve & Valve W/Box (F&I)	EA	1	\$ 4,630.00	\$ 4,630.00	
W-10	6" Gate Valve & Box (F&I)	EA	8	\$ 925.00	\$ 7,400.00	
W-11	Fire Hydrant Assembly (F&I)	EA	8	\$ 2,775.00	\$ 22,200.00	
				Water Subtotal		\$ 115,650.00
ELECTRICAL						
L-1	Circuit breaker 100 amps frame, 25 Amps trip, 48 volts	EA	24	\$ 600.00	\$ 14,400.00	\$ 14,400.00
L-2	Panel Board 800 Amps, 277/480 V, 3 phase, 4 wires w/ MCB	EA	1	\$ 12,000.00	\$ 12,000.00	\$ 12,000.00
L-3	Trench w/Conduit (1-2" PVC Sch 80) (F&I)	LF	3,100	\$ 9.00	\$ 27,900.00	
L-4	3" PVC Conduit (Sch 80) (F&I)	LF	3,100	\$ 3.70	\$ 11,470.00	\$ 11,470.00
L-5	4" PVC Conduit (Sch 80) (F&I)	LF	1,125	\$ 4.50	\$ 5,062.50	\$ 5,062.50
L-6	High Mast Concrete Pole Foundation w/Casing (F&I)	EA	8	\$ 17,500.00	\$ 140,000.00	
L-7	Bollards (F&I)	EA	56	\$ 860.00	\$ 48,160.00	\$ 48,160.00
L-8	High Mast Lighting Pole Complete (100 ft)(12 Lighting Fixtures) (F&I)	EA	8	\$ 55,000.00	\$ 440,000.00	\$ 440,000.00
L-9	Pullbox (F&I) (Traffic Rated)	EA	12	\$ 1,200.00	\$ 14,400.00	\$ 14,400.00
L-10	Pullbox (F&I) (Roadside)	EA	24	\$ 770.00	\$ 18,480.00	\$ 18,480.00
L-11	Conductor 4/0 Cu wire (F&I)	LF	480	\$ 5.60	\$ 2,688.00	\$ 2,688.00
L-12	Conductor 2/0 Cu wire (F&I)	LF	10,695	\$ 4.00	\$ 42,780.00	\$ 42,780.00
L-13	Grounding Wire (#2 Cu) (F&I)	LF	3,565	\$ 2.00	\$ 7,130.00	\$ 7,130.00
L-14	Grounding Wire (42 Cu) (F&I)	LF	450	\$ 2.00	\$ 900.00	\$ 900.00
L-15	Camera Pole (Concrete)(82' high) w/Concret.Foundation(F&I)	EA	2	\$ 15,000.00	\$ 30,000.00	
				Electrical Subtotal		\$ 815,370.50
						\$ 617,470.50
Base Subtotal					\$ 6,815,712.60	
Contingency (10% of Base Subtotal)					\$ 681,571.26	
Dedicated Allowance for Permits (3% of Base Subtotal)					\$ 204,471.38	
CONSTRUCTION TOTAL					\$ 7,701,755.23	

Base Bid Opportunity \$ 791,426.22
Opportunity Total \$ 791,426.22
CSBE Goal % 10.56%

Project Analysis for Goal Recommendation (CWP)
Preliminary Cost Estimate/Budget
Based on Order of Magnitude

PROJECT TITLE: Seaboard Marine Cargo Yard Improvements Phase II -Phase 4 of 5 PROJECT No.: 2008-032.04 ESTIMATE DATE: 12/24/13			
DESCRIPTION	EST. NUMBER OF WORKFORCE/TR ADE	EST. NUMBER OF WORKING DAYS TO COMPLETE WORK	EST. MAN-HR PER RATE
EARTHWORK AND RELATED OPERATIONS	6	136	6532
PAVING	6	13	645
DRAINAGE	5	82	3293
UTILITY ADJUSTMENTS	5	8	320
WATER	5	46	1844
ELECTRICAL	5	109	4365
		TOTAL MAN-HR	16999

**SEABOARD MARINE CARGO TERMINAL REDEVELOPMENT PHASE II (4 OF 5) –
QUALIFICATIONS**

SECTION 110 CLEARING AND GRUBBING

QUALITY ASSURANCE

Qualifications:

- A. An experienced firm that has specialized in demolition work similar in material and extent to that indicated for this Project. Minimum of 1-year experience that has resulted in successful completion of similar projects.

SECTION 444 – DEEP DRAINAGE WELLS

QUALITY ASSURANCE

Qualifications:

- A. The Work described in these Specifications is for the drilling and construction of 24 inch diameter drainage wells. All work described shall be performed by a driller licensed in the State of Florida, under Florida Department of Environmental Protection (FDEP) requirements. The drainage wells shall meet FDEP Class V, Group 6 Standards as provided in the Florida Administrative Codes (FAC), Chapters 62-528 and 62-532. Work shall be performed by the Drilling Contractor only upon authorization of the ENGINEER and OWNER.

SECTION 400 – CONCRETE STRUCTURES

QUALITY ASSURANCE

Qualifications:

- A. Mix Designer: Licensed professional engineer registered in the State of Florida or Florida DOT approved mix designer.
- B. Batch Plant: Currently certified by the National Ready Mixed Concrete Association.
- C. Maintain in the field office, as a minimum, a copy of ACI 301 and AASHTO T 277 – Test for Density, Relative Density (Specific Gravity).
- D. Formwork Designer: Formwork, falsework, and shoring design shall be by a structural engineer licensed by the State of Florida.
- E. Waterstop manufacturer shall demonstrate 5 years, minimum, continuous successful experience in the production, installation, and execution of PVC waterstops.
- D. Nonshrink Grout Manufacturer's Representative: Authorized and trained representative of grout manufacturer. Minimum of 1-year experience that has resulted in successful installation of grouts similar to those for this Project.