


Memorandum



Date: December 12, 2018

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

From: Milton L. Collins, Associate Director 
Miami-Dade Aviation Department, Minority Affairs Division

Subject: Recommendation of Contract Measures Request:
MIA Fuel Facility Tank 21 - Water Supply
Project Number #MDAD-W057A

RECOMMENDATION:

This is a request for Small Business Development (SBD) to approve the subject project in order for the Aviation Department to proceed in obtaining a Small Business Development, Project Worksheet for the MIA Fuel Facility Tank 21 – Water Supply, Project No. MDAD-W057A.

The Minority Affairs Division and the User Division have evaluated the subject project and recommend an **SBE/Construction Project Goal of 16% and an SBE/ Goods & Services Project Goal of 0.9%.** **The suggested SBE/Construction and the SBE/Goods & Services items are listed and the breakdown of services to be performed are attached. The Community Workforce Program (CWP) breakdown is attached for the required goal.**

The Estimated Project Cost associated with the proposed improvements is \$1,004,064.25. The term of the Project will be ninety (90) days.

PROJECT DESCRIPTION AND MINIMUM QUALIFICATIONS:

The contract's scope comprises converting the existing inactive Petroleum Contact Water Tank (Tank 21) into a stored water supply Tank for use by Miami-Dade Fire Rescue (MDFR) to fill trucks and equipment and to supply additional water to the Fire Protection System when Tanks 19 and 20 are depleted. The work includes but not be limited to furnishing all materials, labor, equipment and appurtenances necessary to the installation aboveground and underground pipes and connections thereof.

Maintain quality control over supervision, subcontractors, suppliers, manufacturers, products, services, workmanship and site conditions, to produce work in accordance with Contract Documents. Painting/coating shall be accomplished by experienced painters specializing in industrial painting familiar with all aspects of surface preparation and applications required for this project, shall have a minimum of five (5) years' experience. Experience should be accredited by a list of similar projects and references of the past within the last five (5) years.

Submit manufacturer's certificate, certifying that products meet or exceed specified requirements, executed by responsible officer.

BREAKDOWN OF SERVICES TO BE PERFORMED:

- Review existing conditions.
- Review existing utility information and remove or relocate as necessary.

PROJECT DESCRIPTION AND MINIMUM QUALIFICATIONS CONTINUED:

- Review of additional available data collected.
- Excavation and Trenching.
- Removal of water if necessary (dewatering as needed).
- Installation of the pipe bedding for all underground pipes.
- Install concrete pad and pipe supports.
- Tap existing 10" Fire Water Line using 10" x 10" Tapping Sleeve and Valve, install new 10" Ductile Iron make-up water pipe aboveground. Install 10" Butterfly Valve and Altitude Valve. Open roof shell to make up water line fill the existing tanks.
- Tap existing 24" Fire Water Suction Line using 24" x 24" tapping sleeve and valve. Install 24" altitude valve adjacent to tapping sleeve. Install new 24" Ductile Iron water suction pipe aboveground. Install 24" Altitude Valve, Gate Valve, Compression Sleeves including all fittings as required to connect into the existing 20" nozzle at shell of the existing tank.
- Install 12" Ductile iron underground Fire Water Line from new 24" Suction Line aboveground with 24" x 12" Ductile Iron tee. Install 6" and 8" Ductile Iron Fire Line including all fittings required to connect two new Dry Hydrant and Valves.
- Install 12" Steel Pipe Schedule 40 Overflow Pipe inside of existing tank. For Discharge surplus water from tank, using existing 12" nozzle at shell.
- Tap existing 12" Fire Meter Line using 12" x 12" Tapping Sleeve and valve. Install 12" Gate Valve (Isolation Valve) adjacent to 12" Tapping Sleeve and Valve. Install new 12" Ductile Iron Water meter Line aboveground including all fittings as required. Make an open at roof shell to allow pipe to go into the tank. Repad open.
- Perform all testing required as indicated in the technical specifications.
- Install backfill and compact.
- Restore all existing disturbed surfaces.
- Install all appurtenances as follows:
 - 30" square, hinged, lockable roof hatch.
 - Screened Roof Vent.
 - Gauche Board Liquid Level Indicator.
- Install roof perimeter guardrail and modular system walkway following manufacturer specifications.

Please advise our office if additional information is needed to complete this process.

Recommendation of Contract Measures Request:
MIA Fuel Facility Tank 21 - Water Supply
Project Number #MDAD-W057A
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Attachments

c: L. Johnson, SBD
J. Powell, MDAD
C. Corrales, MDAD
Project File

MDAD's CONTRACT MEASURES AND ANALYSIS WORKSHEET

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

From: Milton L. Collins, Associate Director
Miami-Dade Aviation Department
Minority Affairs Division



PROJECT/CONTRACT TITLE: MIA Fuel Facility Tank 21-Water Supply
PROJECT/CONTRACT NUMBER: MDAD-W057A
DEPARTMENT: Miami Dade Aviation Department
ESTIMATED PROJECT COST: \$1,004,064.25
FUNDING SOURCE: TAC-R thru operator (Allied Aviation)

DESCRIPTION OF PROJECT/BID:

The contract's scope comprises converting the existing inactive Petroleum Contact Water Tank (Tank 21) into a stored water supply Tank for use by Miami-Dade Fire Rescue (MDFR) to fill trucks and equipment and to supply additional water to the Fire Protection System when Tanks 19 and 20 are depleted. The work includes but not be limited to furnishing all materials, labor, equipment and appurtenances necessary to the installation aboveground and underground pipes and connections thereof.

CONTRACT MEASURES RECOMMENDATION:

Measures: SBE-Construction– 16%
SBE-Goods & Services – 0.9%
CWP-Community Workforce Program 10%

REASONS FOR RECOMMENDATION:

Analysis of the factors contained in Implementing Order #3-22 SBE-Construction and Implementing Order #3-41 SBE Goods & Services and Implementing Order #3-37 CWP Community Workforce Program Goals are appropriate for this contract.

MIA FUEL FACILITY TANK 21- WATER SUPPLY W057A

ESTIMATE OF GOODS AND SERVICES 0.9%

ITEM NO.	SPEC NO.	DESCRIPTION OF WORK	UNIT	TOTAL QUANTITY	DURATION (days)	RATE	TOTAL
13		Dumpster, 5 Tons, 1 dump/week	Wk	12		\$ 565.00	\$ 6,780.00

COST \$ 6,780.00

SUBTOTAL CONSTRUCTION COST ESTIMATE (AIP) \$ 6,780.00

GENERAL ALLOWANCE ACCOUNT (10%) \$ 678.00

Dedicated Inspector General Audit Account (0.025% of Subtotal Construction Cost) \$ 169.50

ESTIMATE OF PROBABLE CONSTRUCTION COST \$ 7,627.50

% 0.9%

MIA FUEL FACILITY TANK 21- WATER SUPPLY W057A

ESTIMATE OF CONSTRUCTION WORK

ITEM NO.	DESCRIPTION OF WORK	Unit	Total Quantity	Unit Price	Total	Labor %	Labor Cost	Material Cost
	Coating of tank Interior/Exterior				\$ -			
9	Rolling Scaffolding Tower	Month	1	\$ 400.00	\$ 400.00			\$ 400.00
10	Ventilation System for tank interior	LS	1	\$ 2,000.00	\$ 2,000.00			\$ 2,000.00
11	Aerial Lift, articulation boom, to 60' high, 500 lb	Day	14	\$ 597.40	\$ 8,363.60			\$ 8,363.60
	Coating of Tank Interior							
33	Near-White Blasting as per SSPC SP 10 (material)	SF	10696	\$ 1.20	\$ 12,835.20			\$ 12,835.20
33	Near-White Blasting as per SSPC SP 10 (labor)	SF	10696	\$ 4.34	\$ 46,420.64	78%	\$ 46,420.64	
	Coating of Tank Exterior							
34	Near-White Blasting as per SSPC SP 10 (material)	SF	10696	\$ 0.52	\$ 5,561.92			\$ 5,561.92
34	Near-White Blasting as per SSPC SP 10 (labor)	SF	10696	\$ 1.41	\$ 15,081.36	73%	\$ 15,081.36	
	Coating of Tank Interior							
71	Primed and Painted as per AWWA D102-78 (material)	SF	10696	\$ 0.66	\$ 7,059.36			\$ 7,059.36
71	Primed and Painted as per AWWA D102-78 (labor)	SF	10696	\$ 1.86	\$ 19,894.56	74%	\$ 19,894.56	
	Coating of Tank Exterior							
72	Primed and Painted as per AWWA D102-78 (material)	SF	10696	\$ 0.66	\$ 7,059.36			\$ 7,059.36
72	Primed and Painted as per AWWA D102-78 (labor)	SF	10696	\$ 1.86	\$ 19,894.56	74%	\$ 19,894.56	

COST \$ 144,570.56

SUBTOTAL CONSTRUCTION COST ESTIMATE (AIP) \$ 144,570.56

ALLOWANCE ACCOUNT (10%) \$ 14,457.06

\$ 3,614.26

ESTIMATE OF PROBABLE CONSTRUCTION COST \$ 162,641.88

TOTAL OOPC \$ 1,004,064.25

% of Total OOPC	16%
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OPINION OF PROBABLE CONSTRUCTION COST - 100% DESIGN LEVEL
MIA FUEL FACILITY TANK 21 - WATER SUPPLY MDAD Project Number: W057A

Project No: 200-49912-17002

Prepared By : Nova Consulting, Inc.

For: Tetra Tech

Prepared On: November 28, 2018

Item No.	Item Description	Unit	Quantity	Bare Cost				Material
				Material	Labor	Equipment	Other	

DIRECT COST BY CONSTRUCTION DIVISION			
DIVISION 1 - GENERAL REQUIREMENTS		\$	69,200.00
DIVISION 2 - SITE CONSTRUCTION		\$	21,400.00
DIVISION 3 - CONCRETE		\$	22,200.00
DIVISION 5 - METALS		\$	122,200.00
DIVISION 7 - THERMAL AND MOISTURE PROTECTION		\$	6,500.00
DIVISION 9 - FINISHES		\$	57,400.00
DIVISION 15 - MECHANICAL		\$	299,300.00
DIRECT COST SUBTOTAL		\$	598,200.00

ADDITIVES			
G.1	Contractor O&P	20%	\$ 119,600.00
G.2	Mobilization / Demobilization	3%	\$ 17,900.00
G.3	Maintenance of Traffic Plan	0%	\$ -
G.4	Sales Tax	7%	\$ 22,600.00
G.5	Engineering & Design Fees	0%	\$ -
G.6	API STD 653 Inspection	Allowance	\$ 2,000.00
G.7	NFPA 22 Acceptance Test	Allowance	\$ 2,000.00
G.8	NFPA 25 Inspection and Testing	Allowance	\$ 2,000.00
G.9	Tank Structural Inspection	Allowance	\$ 10,000.00
G.10	Inspector General (I.G.)	0.25%	\$ (1,935.75)
ADDITIVE SUBTOTAL			\$ 174,164.25

SUB-TOTAL OPINION OF PROBABLE CONSTRUCTION COST	\$	772,364.25
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G.11	Contingency	20%	\$ 154,500.00
G.12	Miscellaneous Allowance	10%	\$ 77,200.00

TOTAL OPINION OF PROBABLE CONSTRUCTION COST	\$	1,004,064.25
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References:

1. Heavy Construction Costs with RSMeans Data - 31st annual edition
2. Building Construction Costs with RSMeans Data - 75th annual edition
3. FDOT Item Average Unit Cost - Broward County

**PROJECT ANALYSIS FOR GOAL RECOMMENDATION
(CWP)**

Construction Contract/ Project Measures Analysis & Recommendation

Project Name: MIA Fuel Facility Tank 21- Water Supply
Project Number: W057A

Trade	Estimated Number of Workforce Required	Estimated Number of Total Days to Complete
Painting	4 Person Crew	58 Days