

**DEPARTMENTAL INPUT
CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION**

New contract
 OTR
 CO
 SS
 BW
 Emergency

Re-Bid
 Other
 LIVING WAGE APPLIES: ___ YES ___ X NO



Requisition/Project No: RQWS1100026

Term of Contract: Upon Completion

Requisition/Project Title: Emergency Rehabilitation of 60" Prestressed Concrete Cylinder Pipe

Description: Supply and Install Fibrwrap System to strengthen two lengths of a raw water main at SW 72nd St. and SW 57th Av.

User Department(s): M-DWASD

Issuing Department: DPM

Contact Person: MAGGIE REYNALDOS

Phone: 305-375-4435

Estimated Cost: \$132,000

Funding Source: PROPRIETARY FUNDS

ANALYSIS

Commodity/Service No: 909		SIC:	
Trade/Commodity/Service Opportunities			
<div style="border: 1px solid black; padding: 5px; margin: 5px auto; width: 80%;"> Contract/Project History of Previous Purchases For Previous Three (3) Years Check Here <input checked="" type="checkbox"/> if this is a New Contract/Purchase with no Previous History </div>			
		EXISTING	2ND YEAR
Contractor:	Fibrwrap Construction SE LLC		
Small Business Enterprise:			
Contract Value:			
Comments:			
Continued on another page (s): ___ Yes ___ No			

RECOMMENDATIONS

SBE	Set-Aside	Sub-Contractor Goal	Bid Preference	Selection Factor
		%		
		%		
		%		
		%		

Basis of Recommendation:

Signed: _____

Date to DBD: 9/20/11

Date Returned to DPM: _____



**SECTION #3
EMERGENCY PURCHASES**

NOTE TO DEPARTMENTS: COMPLETE ITEMS MARKED WITH (▶)

▶ REQUISITION #: _____ P.O. #: _____ BCC DATE: _____

▶ ACQUISITION DATE (Date Order Is Placed): 9/06/11

▶ TITLE:	Fibrwrap Carbon Reinforced Polymer (CFRP) Internal Rehabilitation of 60-inch Prestressed Concrete Cylinder Pipe (PCCP)
▶ DESCRIPTION:	Supply and install Fyfe Company LLC Tyfo SCH Fibrwrap system to strengthen two (2) lengths of "Priority 1" 60-inch PCCP Raw Water Main located in the vicinity of S.W. 72 Street and S.W. 97 th Avenue. Priority One category which means the PCCP Pipes are either at high risk or very high risk of imminent and catastrophic rupture and failure.
▶ PURPOSE:	To internally reinforce and restore the pressure integrity condition of two (2) lengths of 60 inch PCCP raw water main in the area located SW 72 nd Street and SW. 97 th Avenue. The two (2) lengths were identified as "Priority 1" from a pipeline condition assessment report and the rehabilitation will be performed by Fibrwrap Construction.

▶ Department(s):	▶ Allocation(s):
MDWASD	\$ 132,000.00

▶ TERM OF CONTRACT:

One Two Three Four Five *Year(s) Months

Contract Period From _____ to _____

Upon Completion * From _____ to _____

Upon Delivery * _____ Days A.R.O. (after Receipt of Order)

Special Conditions:

Insurance Type 07

Performance/Payment Bond

Certificate of Competency

Living Wage Applies

SBE Measures:	<input checked="" type="checkbox"/> None			Review Committee Date: _____ Item #: _____
	<input type="checkbox"/> Set Aside	<input type="checkbox"/> SBE	<input type="checkbox"/> Micro Enterprise	
	<input type="checkbox"/> Bid Preference	<input type="checkbox"/> SBE	<input type="checkbox"/> Micro Enterprise	
	<input type="checkbox"/> Goal	<input type="checkbox"/> SBE	<input type="checkbox"/> Micro Enterprise	

▶ Number of Price Quotation(s): Requested: 1 Received: 1

Awarded To Low Bidder: * YES NO, If "NO", provide explanation in the Comments section

Vendor: <u>Fibrwrap Construction SE</u>	Vendor: _____
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Contract Value: \$132,000.00

Did Local Preference affect the outcome of the Award?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO, if "YES", provide detailed explanation in the "Comments" section
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UAP Included: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	• Will CITT Funds be used? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	• Will Federal Funds be used? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	• If UAP is not included, Attach written approval to waive UAP and

SECTION #3
EMERGENCY PURCHASES

provide an explanation in the "Comments" section

Justification and Comments:

To internally reinforce and restore the pressure integrity of two (2) lengths of 60 inch PCCP raw water main in the area located SW 72nd Street and SW. 97th Avenue. A total of three (3) lengths were identified as "Priority 1" from a pipeline condition assessment report utilizing a non-destructive patented technology called Pipe Diver, a free swimming live PCCP inspection tool. This free swimming tool can be inserted into a closed pipeline system and operated for up to 36 hours before requiring retrieval and recharging.

The advantage that this technology has over conventional technologies that provide recorded video inspection results is that the Pipe Diver transmits a signal that when combined with the patented software is able to detect and locate the number of damaged or broken prestressing wires located inside the PCCP. All of the results and information are presented in a full assessment report that provides summary of damaged segments of the pipe and also ranks them in priority category and quantitative order of number of broken prestressing wires.

WASD is continuing to perform condition inspection and assessment reports of all large diameters PCCP piping infrastructure. Three lengths of 60 inch PCCP Raw Water main located at SW 97th Avenue and SW 72nd Avenue were identified as Priority One category, which means the PCCP Pipes are either at high risk or very high risk of imminent and catastrophic rupture and failure. One of the lengths began to leak and was repaired by replacement from OCI Contract 7360 under a prequalified pool of specialized emergency contractors. The other two lengths must be immediately rehabilitated using the Fibrwrap process.

WASD Director John Renfrow has declared an emergency and instructed WASD Assistant Director of Water Ralph Terrero to proceed with the rehabilitation. A proposal dated 8/24/11 is attached and the input document will be submitted this week along with an ADPICS RQWS tracking number requisition. Work needs to proceed immediately to internally reinforce and restore the pressure integrity condition of the two (2) lengths of 60 inch PCCP raw water main in the area located SW 72nd Street and SW. 97th Avenue

Fibrwrap Construction is recognized worldwide for developing innovative techniques to strengthen and repair large diameter pipelines and the Fyfe Company Tyfo System coatings are NSF approved for use in structures containing potable water. Fibrwrap was originally developed for seismic strengthening of bridge columns. Following the successful research and testing for use in both circular and rectangular columns, Fibrwrap has also been successfully tested and used on nearly all concrete structural elements.

Background/Need to Know: Draft report revealed significant areas of prestressing degradation that required immediate action to avert other potential ruptures and threats to the service pressure integrity of the Countywide water distribution service infrastructure.

Potential Issues: Failure to take immediate action to the affected 60-inch raw water pipeline would almost assure another catastrophic rupture and potential failure of the entire water distribution system.

► **Signature(s):**

Gregory Hicks, CPPB

Contact Person

(786) 552-8049

Telephone

9/7/11
Date

Gregory Hicks

John Renfrow
Department Director Approval

9/7/11
Date

SECTION #3
EMERGENCY PURCHASES

Department of Procurement Management Use Only

Signatures(s):

_____ Procurement Agent	_____ Date
_____ Procurement Supervisor	_____ Date
_____ Procurement Manager	_____ Date
_____ Division Director	_____ Date
_____ Vendor Assistance Section	_____ Date



August 24, 2011

Ralph Terrero, P.E.
Assistant Director, Water Systems Operations
Miami-Dade County
Water & Sewer Dept.
3071 SW 38 Avenue, Suite 515
Miami, FL 33146
P: 786-552-8112
E: terrero@miamidade.gov

Quote #FCISE – 13042– 11Rev.1

SUBJECT: Tyfo Fibrwrap (CFRP) Carbon Reinforced Polymer PCCP Internal Repairs

Mr. Terrero,

It is a pleasure to provide you the following firm fixed price proposal to supply and install the Fyfe Co., LLC Tyfo SCH Fibrwrap system to strengthen two (2) "Priority 1" pipes of existing 60" diameter pre-stressed cylinder pipe per your request. The PCCP sections are located in Miami-Dade County, Florida. Fibrwrap Construction Services, Inc is licensed, bondable and Fyfe Co., LLC certified, meeting or exceeding all experience requirements. Fibrwrap Construction Services, Inc is the most comprehensively trained applicator of the Fyfe Co., LLC Tyfo Fibrwrap Strengthening Systems.

Section 1 - PROPOSED SCOPE OF WORK – 60" PCCP Replacement

1. Submittal package including design calculations and shop drawings signed and sealed by a licensed Professional Engineer in the State of Florida, project schedule, safety plan, etc.
2. Fibrwrap Construction shall be onsite to perform the work as per agreed to schedule in accordance with Miami Dade shutdown schedule.
3. Mobilize all personnel, equipment and materials for the project.
4. Safety analysis and training shall take place prior to commencement of work as per site-specific requirements.
5. Installation of ventilation shall meet OSHA Mining and Tunneling Title 8 Procedures.
6. Air monitoring and gas monitoring of the pipeline shall meet OSHA and local requirements.
7. De-humidification requirements shall be provided.
8. Preparation of necessary surfaces for installation utilizing either a 40,000 psi hydro-blast recovery unit to clean and prepare substrate surface.
9. Application of thickened layer of Fyfe Co. Tyfo® S primer, NSF 61 certified.

Regional Office: Fibrwrap Construction Services, Inc
P.O. Box 8656, Atlanta, GA 31106-0856
P. 404-371-4033 F. 404-371-4032

E.info@fibrwrapconstruction.com www.fibrwrapconstruction.com



10. Installation of the Fyfe Co. Tyfo® Carbon Fiber systems, all NSF 61 certified. The pricing provided herein is based on applying one longitudinal layer of Tyfo® SCH 412X followed by three circumferential layers of Tyfo® SCH 412X, for a total of four layers of carbon fiber composite.
11. Each joint shall be chipped out down to the metallic joint ring, then provided with a dielectric barrier of one layer of Tyfo® SEH (Glass Fiber). This will be followed by bonding of the Carbon Fiber layers to the dielectric barrier. A single band expansion ring shall then be placed into the joint to prevent any leakage; the remainder of the joint groove on top of the expansion ring shall be grouted, resulting in a smooth joint, in line with the internal diameter of the pipe sections. All materials for the joint rehabilitation shall be provided by Fibrwrap Construction, SE, LLC.
12. Upon completion of the application of the carbon fiber composite layers, a final coating of the thickened Tyfo® S Durability Coating shall be applied for added protection over the entire rehabilitated system.
13. Heating and dehumidification of pipe sections to allow for curing.
14. Installation of traditional WEKO-Seal over the joints (if option is requested).
15. Onsite fabrication of sample witness panels.
16. Testing of 3 panels by an independent testing laboratory per ASTM D3039, if required.
17. Continuous QA/QC program.
18. Final clean-up and demobilization from work site shall be performed including but not limited removal of all trash, debris, equipment and Fibrwrap related scopes of work.

Section 2 - PRICING SCHEDULE

Total Cost for Fibrwrap Construction Services 60"...

\$ 132,000.00

Taxes are included. Payment: Net 30 days

Section 3 - OWNER TO PROVIDE/EXCLUSIONS:

1. Access to work areas. Buyer to provide lay down area for storage of equipment and materials.
2. Dewatering of pipeline, including low elevation changes.
3. Lock out/Tag out. De-watering and filling of the pipe.
4. Pipe sanitizing, if required.
5. Traffic Control as required.
6. Condition assessment, structural design or testing of existing materials and structures.
7. Third party QA/QC and inspections.

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8. Coordination with local agencies.
9. Permits and liquidated damages.
10. Any other item not specifically included in "Proposed Scope of Work".

Section 4 - ASSUMPTIONS:

1. Fibrwrap will have access to two (2) - 16"X18" boiler manholes, one on each side of the repair locations.
2. Schedule – to begin onsite operations on 9-6-11.
3. Design pressure 150psi with surge pressure rated at 210psi.
4. Necessary insurance requirements (\$3,000,000 General Liability) and bond costs are included.
5. Fibrwrap Construction will provide a 10 year extended warranty on materials and workmanship.
6. All work will be completed internally with the Patented Tyfo Fibrwrap strengthening system and will limit the impact on lane closures. It is recommended a preconstruction meeting at least 2 weeks in advance to accommodate Miami Dade requirements and determine a coordinated working schedule.
7. Work will be completed in 2011.
8. Spools requiring repair and included in this proposal are identified by PURE numbers: 60" Line – 4210 and 4213.

If you should have any questions or comments after review of this proposal, please feel free to contact me at any of the following:

D: 626-625-0255
F: 909-390-7030
E: Jason@fclp.com

Sincerely,

Jason Alexander
President
Fibrwrap Construction Services, Inc