

**DEPARTMENTAL INPUT
CONTRACT MEASURE ANALYSIS AND RECOMMENDATION**

TO: Gary T. Hartfield, Division Director
Department of Business Development

FROM: Leo Vargas, OCI Supervisor
Procurement/Stores Section

DEPARTMENT: Miami-Dade Water and Sewer Department

CONTRACT TITLE: RPQ P0165 One Year County Wide Contract for Evaluation of Existing Gravity Sewers with CCTV

CONTRACT NO.: MCC 7360 Program

ESTIMATE AMT.: \$3,333,629.65 [+ \$333,362.97 Contingency, Dedicated Allowances \$37,920.00 and
ACCT. FUNDS: Off Duty Police \$50,000.00}

RECOMMENDATION

Analysis for Recommendation

ITEM	DESCRIPTION	ESTIMATE COST	% OF ITEM TO BASE BID	CSBE AVAILABILITY
1	This project consist of evaluating of existing gravity	\$3,333,629.65	100%	
	sewers with low voltage exfiltration test, cleaning	\$0.00	0%	
	and CCTV Inspections of sewer basins and	\$0.00	0%	
	manholes.	\$0.00	0%	
		\$0.00	0%	
		\$0.00	0%	
	SUB-TOTAL	\$3,333,629.65	100%	
	Off Duty Police Officers	\$50,000.00	1%	
	Dedicated	\$37,920.00	3%	
	Contingency	\$333,362.97	10%	
	TOTAL	\$3,754,912.62		


Department Head or Authorized Agent

Memorandum



Date: April 7, 2015

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

From: Cristian Garcia
Contract Compliance Specialist II
Miami Dade Water & Sewer

Subject: One Year Countywide Contract for Evaluation of Existing Gravity Sewers with Low Voltage Exfiltration Test, Cleaning and CCTV Inspections of Sewer Basins and Manholes (RPQ# P0165)

Miami-Dade Water and Sewer Department (WASD) respectfully requests that you review the attached recommendation for "0 % CSBE Participation.

Please see attached justification.

This project is work order driven and each work order will take about 20 to 30 days to complete.

Primary Trades for this project are General Engineering, Pipeline Engineering, Pipe Line Contractor and Underground Utility / Excavation.

SCOPE

The Project consists of furnishing all labor, material and equipment for the Electro Scan evaluation (by ASTM F2550-13), cleaning, and video survey/recording of approximately 1,006,720 linear feet of sanitary sewer gravity collection lines of varying diameters, this allocation of sanitary sewer gravity collection system is arranged in 62 separate wastewater collection basins within Miami-Dade County, Florida. The basins are listed in Appendix K. **The Department reserves the right to modify and prioritize the listed basins.** Reports, surveys, and video recordings shall be submitted documenting all testing and inspections. The overall project is to be completed within a 365 calendar day period starting from the Notice To Proceed (NTP).

The work also includes as required the bypass pumping of sewage or plugging and monitoring and traffic control, proper and legal disposal of removed materials, and all other appurtenant and miscellaneous related items and work necessary for a completed project.

The Contractor is also alerted that various "Standards" are used herein for reference and criteria, and that he should obtain copies for his general use and reference. Abbreviated titles are used throughout these Specifications and although most of them are widely known, their complete titles are given below in order to avoid any misunderstanding.

The Department has allocated certain funds for this project. Should the amounts bid exceed expected levels, the Department reserves the right to either reduce quantities and/or delete elements of work while proceeding at the prices bid, or reject bids and re-advertise at its sole discretion.

The County does not guarantee that the full amount of the Contract will be issued to the Contractor. The actual amount of Work Orders assigned is a prerogative of the County in its sole discretion and the dependent only on its needs. The combined total for all work authorized by the Work Orders shall not exceed the Contract Award amount.

- AASHTO American Association of State Highway and Transportation Officials
- ACI American Concrete Institute
- AISI American Iron and Steel Institute
- ANSI American National Standards Institute
- ASTM American Society for Testing and Materials
- AWS American Welding Society
- AWWA American Water Works Association
- CRD Control Data Register
- DERM Miami-Dade County Department of Environmental Resources Management
- FDOT Florida Department of Transportation
- MDC Miami-Dade County
- MDTA Miami-Dade Transit Authority
- MDWASD Miami Dade Water and Sewer Department
- NSF National Sanitary Foundation
- OSHA Occupational Safety & Health Act
- PWWMD Public Works and Waste Management Department

The above list shall not be considered complete, as there are other "Standards" used; however, in most cases complete titles have been given.

Wherever, "Standards" are indicated herein for reference, the referenced portion shall have the same force and effect as if it were included herein in its entirety, latest edition or revision if the date of publication is not shown.

QUALIFICATIONS AND EXPERIENCE OF THE CONTRACTOR

At the time of bidding the bidder shall submit a separate sealed envelope containing proof that his company has successfully SSES reviewed, cleaned and performed inspection of at least 10,000 linear feet of sanitary sewer mains, up to 24 inches in diameter, for at least 1 month and has been regularly and successfully engaged in cleaning and inspecting larger diameter lines for a minimum of one year. Further, the successful bidder, prior to award, shall submit more detailed information on the experience of the firm and personnel assigned to the review, survey and cleaning work, and especially the experience of the crew leaders who will actually supervise the work in the field, as well as information on all equipment and the type of process that will be used for cleaning. The Contract will not be awarded and no review, inspection and/or cleaning shall commence until these submittals have been approved and the successful bidder has thereafter received a written NTP. MDWASD reserves the right to reject individual crew leaders, if in the Department's or the Engineer's opinion, the crew leader demonstrates either inadequate experience or unsatisfactory or poor performance on the job.

Community Workforce Program is not applicable to this project.

If you require any additional information, please contact:


Cristian Garcia
Contracts Compliance Specialist 2
Miami-Dade Water & Sewer Department
3071 SW 38 Ave, Suite 107-14, Miami, FL 33146
(786) 552-8216 (Phone) (786) 552-8885 (Fax).

Cc: Leo Vargas.



Consent Decree PMCM Team
800 Douglas Entrance | North Tower, 2nd Floor
Coral Gables, FL 33134
(O) 305.444.4691 | (F) 305.447.3580

Memorandum

To Cristian Garcia
CC David Vazquez
Subject RPQ #0165 1 Year Sanitary Sewer Evaluation Contract

From Warren Howard
Date April 2nd 2015

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Cristian,

Re: Justification for using the 7360 contract form for RFP# 0165

This contract [for evaluation of existing gravity sewers with low voltage exfiltration test, cleaning and CCTV inspection of sewer basins and manholes for I/I reduction] incorporates a technology to detect I/I leakage using an advanced system where defects in the sewer pipe are detected by inducing a small low voltage electrical current into the pipe then measuring and analyzing the amount of electrical current that passes through any defective areas of pipe. The system is particularly suited to basins where the gravity mains are above the water table meaning that traditional CCTV video would not detect visible water inflow into the sewers, we are mandated by several ordinances to reduce I/I rates in basins where this is the case. The technology is also efficient in terms of time taken to evaluate the sewers and gives us instantaneous feedback as to where defects are within the sewer system allowing prompt follow up repair calls to be made.

To effectively meet all these criteria and realize the savings we would see in terms of time and accuracy we would require an experienced SSES contractor that has used this system in the field, has invested in the equipment to carry out both the low voltage exfiltration test evaluation and the follow up CCTV survey and manhole surveys.

Using the 7360 contract form would open up the contract to these experienced contractors who would meet all the requirements above.

Regards


Warren Howard
Consent Decree PMCM Team

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.: P0165

*Reference corresponding project number when submitting a work order

Contract/Project Title: RPO P0165 One Year County Wide Contract for Evaluation of Existing Gravity Sewers with Low Voltage Exfiltration Test, Cleaning and CCTV Inspections of Sewer Basins and Manholes

Description/Scope of Work: See Attached

Estimated Cost: 3333629.65 **Funding Source:** Other (specify)

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.
Various Locations

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
N/A		
N/A		
N/A		

Comments: CWP is not applicable. Project site is not within a DTA

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CSBE) See attachment

Sub-Trade	Est. Cost	% of Item to Base Bid	Availability
0	\$	0%	
0	\$	0%	
0	\$	0%	

RECOMMENDATION

Set-Aside: Level 1 Level 2 Level 3 Trade Set-Aside Sub-Contractor Goal Workforce Goal No Measure

Basis for Recommendation: Specialized Trade

Date submitted to DBD: 04/08/2015

Contact Person: Cristian Garcia

Telephone No.: 786-552-8216

White Jr., Tyrone (ISD)

From: Garcia, Cristian (WASD)
Sent: Wednesday, April 08, 2015 12:12 PM
To: White Jr., Tyrone (ISD)
Cc: Johnson, Laurie (ISD)
Subject: RE: RPQ# P0165 One Year Countywide Contract for Evaluation of Existing Gravity Sewers With CCTV
Attachments: P0165 Input Form.pdf

Good afternoon Tyrone,
Attached are copies of the RC Input Form and Justification for subject project. Please advise once it has been reviewed.

Thanks,

Estimate

CO FINCH/VI REDUCTION PROGRAM
 EVALUATION OF EXISTING GRAVITY SEWERS WITH LOW VOLTAGE EXCITRATION TEST, CLEANING AND CCTV INSPECTION OF SEWER BASINS FOR VI REDUCTION
 ONE YEAR COUNTY WIDE CONTRACT FOR EVALUATION OF EXISTING GRAVITY SEWERS WITH LOW VOLTAGE EXCITRATION TEST, CLEANING AND CCTV INSPECTION WITHIN MIAMI-DADE COUNTY, FLORIDA
 ENGINEER'S ESTIMATE

Bid Item	Description	Est Qty	Unit	Estimate Amount	Estimate Total
1.1	Providing Maintenance of Traffic (MOT)	1	SUM	\$40,000.00	\$40,000.00
2.1	Electro Scan evaluation of 6-inch diameter sanitary sewer gravity lines	240	LF	\$1.20	\$288.00
2.2	Electro Scan evaluation of 8-inch diameter sanitary sewer gravity lines	937,189	LF	\$1.25	\$1,171,486.25
2.3	Electro Scan evaluation of 10-inch diameter sanitary sewer gravity lines	35,872	LF	\$1.85	\$66,363.20
2.4	Electro Scan evaluation of 12-inch diameter sanitary sewer gravity lines	34,158	LF	\$2.35	\$80,271.30
2.5	Electro Scan evaluation of 15-inch diameter sanitary sewer gravity lines	871	LF	\$2.50	\$2,177.50
2.6	Electro Scan evaluation of 16-inch diameter sanitary sewer gravity lines	350	LF	\$3.00	\$1,050.00
2.7	Electro Scan evaluation of 18-inch diameter sanitary sewer gravity lines	180	LF	\$3.75	\$712.50
3.1	Cleaning and flushing of 6-inch diameter sanitary sewer gravity lines & manholes, including confirmatory CCTV inspection	240	LF	\$0.85	\$204.00
3.2	Cleaning and flushing of 8-inch diameter sanitary sewer gravity lines & manholes, including confirmatory CCTV inspection	937,189	LF	\$0.90	\$880,329.65
3.3	Cleaning and flushing of 10-inch diameter sanitary sewer gravity lines & manholes, including confirmatory CCTV inspection	35,872	LF	\$1.05	\$37,665.60
3.4	Cleaning and flushing of 12-inch diameter sanitary sewer gravity lines & manholes, including confirmatory CCTV inspection	34,158	LF	\$2.20	\$75,147.60
3.5	Cleaning and flushing of 15-inch diameter sanitary sewer gravity lines & manholes, including confirmatory CCTV inspection	871	LF	\$2.65	\$2,308.15
3.6	Cleaning and flushing of 16-inch diameter sanitary sewer gravity lines & manholes, including confirmatory CCTV inspection	350	LF	\$3.20	\$1,120.00
3.7	Cleaning and flushing of 18-inch diameter sanitary sewer gravity lines & manholes, including confirmatory CCTV inspection	180	LF	\$4.40	\$792.00
3.8	For supplement payment for heavy cleaning, independent of pipe diameter and length (heavy cleaning is defined as more than three passes where ordered by the Engineer)	100	ea	\$1,000.00	\$100,000.00
4.1	CCTV review of identified defects in 6-inch gravity sewer line, per linear feet of travel to furthest defect, starting manhole to be determined by Engineer	200	LF	\$1.00	\$200.00

4.2	CCTV Review of identified defects in 8-inch gravity sewer line, per linear feet of travel to furthest defect, starting manhole to be determined by Engineer	350,000	LF	\$1.00	\$350,000.00
4.3	CCTV Review of identified defects in 10-inch gravity sewer line, per linear feet of travel to furthest defect, starting manhole to be determined by Engineer	20,000	LF	\$1.20	\$24,000.00
4.4	CCTV Review of identified defects in 12-inch gravity sewer line, per linear feet of travel to furthest defect, starting manhole to be determined by Engineer	20,000	LF	\$2.40	\$48,000.00
4.5	CCTV Review of identified defects in 15-inch gravity sewer line, per linear feet of travel to furthest defect, starting manhole to be determined by Engineer	400	LF	\$2.90	\$1,160.00
4.6	CCTV Review of identified defects in 18-inch gravity sewer line, per linear feet of travel to furthest defect, starting manhole to be determined by Engineer	200	LF	\$4.00	\$800.00
4.7	For full CCTV survey and evaluation of a 6-inch gravity sewer line, per linear feet of travel to furthest defect, starting manhole to be determined by Engineer	100	LF	\$5.00	\$500.00
5.1	For full CCTV survey and evaluation of a 8-inch gravity sewer line, per linear feet of travel to furthest defect, starting manhole to be determined by Engineer	200	LF	\$1.20	\$240.00
5.2	For full CCTV survey and evaluation of a 10-inch gravity sewer line, per linear feet of travel to furthest defect, starting manhole to be determined by Engineer	200,000	LF	\$1.35	\$270,000.00
5.3	For full CCTV survey and evaluation of a 12-inch gravity sewer line, per linear feet of travel to furthest defect, starting manhole to be determined by Engineer	10,000	LF	\$1.50	\$15,000.00
5.4	For full CCTV survey and evaluation of a 14-inch gravity sewer line, per linear feet of travel to furthest defect, starting manhole to be determined by Engineer	10,000	LF	\$1.75	\$17,500.00
5.5	For full CCTV survey and evaluation of a 16-inch gravity sewer line, per linear feet of travel to furthest defect, starting manhole to be determined by Engineer	400	LF	\$1.75	\$700.00
5.6	For full CCTV survey and evaluation of a 18-inch gravity sewer line, per linear feet of travel to furthest defect, starting manhole to be determined by Engineer	200	LF	\$1.75	\$350.00
5.7	For full CCTV survey and evaluation of a 24-inch gravity sewer line, per linear feet of travel to furthest defect, starting manhole to be determined by Engineer	100	LF	\$2.20	\$220.00
6.1	Manhole inspection by way of digital imaging system, including data collection	3,000	ea	\$45.00	\$135,000.00
7.1	SUBTOTAL ITEMS 1.1 through 6.1				\$3,333,629.95
8.1	Providing Uniformed / Off-duty Police Officers for the purposes of maintenance of traffic		SUM	\$50,000.00	\$50,000.00
8.2	For unforeseen conditions, for other construction changes, and for quantity adjustments. (Ordered by the Engineer (0.10 x Subtotal Items 1 to 6))		SUM	\$333,262.97	\$333,262.97
8.3	For all costs of required permits, fees, impact fees, and inspections, if ordered by the Engineer (0.03 x Subtotal Items 1 to 5)		SUM	\$100,008.99	\$100,008.99
9.1	TOTAL ESTIMATE SUM TOTAL OF ITEMS 7.1 through 8.3				\$3,817,001.91