

Date: September 26, 2017

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

From: William Diaz
Contract Compliance Specialist II
Miami Dade Water & Sewer

Subject: RPQ P0207 Pump Station 1 and 2 Wet Well Connections

Miami-Dade Water and Sewer Department (WASD) respectfully request that you review the attached recommendation to allow this project to be bid using the CICC7360 Program.

The work of this project includes making connections to 42-inch and 48-inch large diameter Pre-Stressed Concrete Force Mains. The Contractor will have to install ductile iron pipe and valves of various sizes up to 60-inches in diameter. Pipe installation of this size requires experience and equipment that can handle heavy loads. The weight of 60-inch ductile iron pipe and 60-inch plug valve far exceeds what normally required to install ductile iron pipe 16-inches and smaller. The Department has standard experience requirements for large diameter pipe which require previous experience.

The Contractor will also operate within Pump Station 1 and 2 which are critical to the Departments operation. The Contractor will have to install and remove pipe in this location which will likely have significant utilities which require careful excavation and in some cases relocation. There are two locations where a major gas line is identified to be relocated.

Dewatering of Sewage – When the Contractor cuts into the force main for the connection it will be full of sewage. Sewage spills are a serious issue with the regulatory agencies often resulting in fines or in worst cases Public Advisories and beach closings. The Contractor needs to be familiar with concrete pipe, how to make a cut-in connection, how to properly extract the sewer from the line and how to properly dispose of the sewage. A Contractor that has worked with large diameter sewer lines should be experienced in this area and perform the work correctly. An inexperienced contractor could find himself with serious issues.

A Contractor experienced with large diameter pipe work is necessary for the successful completion of this project. The estimate of the project is not large because there is limited amount of pipe, however there is significant work that is difficult in nature. Please allow for this work to be performed under the 7360 MCC Contract.

Summary of Work:

The project consists of furnishing all materials, labor, and equipment necessary to complete utility infrastructure upgrades at three separate locations within the Miami-Dade County Water and Sewer service area.

Interim piping upgrades at Sewage Pump Station No. 1, but not limited to, providing uninterrupted pumping at the existing pump station and until the pump station improvements are completely operational and accepted by the Department; demolition of the existing yard piping, valves and all other items deemed necessary to be removed; site preparation, clearing and grubbing as necessary including temporary realignment of gas mains to the station; modifications for penetration to the existing concrete chamber upstream of wet well; furnishing and installing a new 42-inch ductile iron force main piping, plug valve, fittings and appurtenances at the pump station together with connections to the existing 42-inch RCP force main; site restoration; restoration of concrete sidewalks; temporary removal and replacement of existing stairs; temporary gas line bypass; restoration of pipe chase and gas lines; construction of asphaltic pavement and markings restoration; testing; and other appurtenant and miscellaneous items and work for a complete, satisfactory and functional installation.

Pumping Station 1 is located at 390 NW North River Drive Miami, City of Miami, Florida, in Section 01, Township 54 South, Range 41 East, of Miami-Dade County, Florida.

Interim piping upgrades at Sewage Pump Station No. 2, but not limited to, providing uninterrupted pumping at the existing pump station and until the pump station improvements are completely operational and accepted by the Department; demolition of the existing yard piping, valves and all other items deemed necessary to be removed; site preparation, clearing and grubbing as necessary; modifications for penetration to the existing fiberglass tube manhole upstream of wet well; furnishing and installing a new 30-inch ductile iron force main piping, plug valves, fittings and appurtenances at the pump station together with connections to the existing force main and fiberglass manhole; site restoration; construction of asphaltic pavement and markings restoration; and testing; and other appurtenant and miscellaneous items and work for a complete, satisfactory and functional installation.

Pumping Station 2 is located at 1075 Biscayne Blvd. City of Miami, Florida, in Section 31, Township 53 South, Range 42 East, of Miami-Dade County, Florida.

Interconnecting force main upgrades between existing 48-inch and 60-inch force mains at the intersection of NW 4th Avenue and NW 4th Street. Work to include improvements for new connections between the two existing force mains; site preparation, clearing and grubbing as necessary; connections to existing force mains during the dry season; maintenance of traffic; furnishing and installing new ductile iron force main piping, plug valves, fittings and appurtenances at the intersection to connect together two existing force mains; site restoration; construction of asphaltic pavement and markings restoration; testing; relocation of existing gas mains, and other appurtenant and miscellaneous items and work for a complete, satisfactory and functional installation.

Interconnecting Piping and Valves is located in the public right-of-way NW 4th Avenue and NW 4th Street, City of Miami, Florida, in Section 01, Township 54 South, Range 41 East, of Miami-Dade County, Florida.

The scope of this Work may require the removal of asbestos and/or lead and/or other hazardous materials from the project site, including but not limited to asbestos-cement (AC) pipes. The removal, transport, and disposal of hazardous materials shall be performed by Hazardous Work Operations (HAZWOPER) certified-contractors and trained personnel wearing personal protective equipment (PPE). All Work involving hazardous materials shall be coordinated with the MD-WASD Hazardous Materials Management Section (HMMS) (Tel. Numb. 786-552-8400) for evaluation, and do not

continue with the Work until instructed to proceed by the Engineer. Refer to Section 44 of the General Covenants and Conditions.

Certain structures, pipes and valves are to remain, which the Contractor shall salvage, protect, and maintain for reuse and which are to be placed back in operation upon completion of construction. Use by the Contractor of components that are "to remain" for his convenience shall be replaced with new in-kind components at no additional cost to the Miami-Dade Water and Sewer Department ("Department") if damaged or rendered useless.

Upon commencement of construction the Contractor shall coordinate with the Department for the removal and salvaging of certain parts within the construction limits.

1.01 MINIMUM REQUIREMENTS OF THE BIDDER

A. License Requirements

1. At the time of Bid and pursuant to the requirements of Section 10-3 of the Code of Miami-Dade County, Florida and these Solicitation and Contract Documents, the Bidder must hold a valid, current, and active:
 - a. Certificate of Competency from the County's Construction Trades Qualifying Board as a General Engineering Contractor or as a Pipeline Engineering Contractor. The Pipeline Engineering Contractor shall subcontract with a qualified contractor any work which is incidental to the pipeline specialty but is specified in the aforementioned Code as being the work of other than that of the Engineering Specialty for which certified;
 - or
 - b. Certification, as a General Contractor or as an Underground Utility and Excavation Contractor, provided by the State of Florida Construction Industry Licensing Board, pursuant to the provisions of Section 489.115 of the Florida Statutes

B. Experience

1. In addition to the license requirements in Section 1.01, A above, the Bidder must have a minimum of five (5) years of experience, under its current business name, in the construction of roadway / horizontal projects of similar scope and scale involving public right-of-way, construction / installation / repair / replacement of main water distribution systems and/or main sanitary sewer collection systems, and maintenance of vehicular traffic, supported by references for five (5) projects completed within the past five (5) years.

Submitted reference Projects must demonstrate that the Bidder:

- a. Served as the Prime Contractor for the referenced Projects provided;

and

- b. Self-performed at least fifty percent (50%) of the negotiated construction cost for the referenced Projects.
 - 2. The Bidder must demonstrate that it has full-time personnel with the necessary experience to perform the Project's Scope of Work. This experience shall include work in successfully completed projects performed by the identified personnel whose bulk of work performed in the Public Right-of-Way is similar in detail to the Project's Scope of Work described in these Solicitation Documents. Demonstrate the experience requirement by:
 - a. Providing a detailed description of at least three (3) projects similar in detail to the Project's Scope of Work described in these Solicitation.
 - 1) Experience with the installation and connection to Prestressed Concrete Cylinder Pipe is required. The Contractor shall submit proof that the company or key personnel has installed at least one length of 42-inch or larger prestressed concrete pressure pipe within the past 5 years.
 - 2) The three (3) projects required of the similar experience shall be 36-inch or larger with at least one of the projects having a 42-inch or larger prestressed concrete pressure pipe installation.
 - b. Documents and in which the Bidder's identified personnel is currently engaged or has completed within the past five years. List and describe the aforementioned projects and state whether the work was performed for the County, other government clients, or private entities. The description must identify for each project:
 - 1) The identified personnel and their assigned role and responsibilities for the listed project
 - 2) The client name and address including a contact person and phone number for reference
 - 3) Description of work
 - 4) Total dollar value of the contract
 - 5) Contract duration
 - 6) Statement or notation of whether Bidder's referenced personnel is/was employed by the prime contractor or subcontractor, and
 - 7) For completed projects, provide letters of certification of final acceptance or similar project closure documentation issued by the client and available Contractor's performance evaluations.
 - 3. The County reserves the right to request additional information and/or contact listed persons pertaining to bidder's experience.
- C. The Bidder shall commit to self-perform at least fifty percent (50%) of the negotiated construction cost of the entire Project utilizing its own employees.
- D. In accordance with Sections 2.25 "Issuance of Work Under the Contract" and 2.33 "Subcontracting of Work: Post Award", (E), of the Special Conditions, this Project might be considered a multiple trade project. None of the primary trade related work shall be

subcontracted. Only ancillary work required to complete this Project may be subcontracted with prior approval from the Department and the Miami-Dade County Internal Services Department, Small Business Division.

Construction Trades: General Engineering Contractor, Pipe Lines Engineering Contractor, General Contractor, Underground Utility and Excavation. Sub-Contractor: Paving, Asbestos Contractor.

CSBE Goal – 0% (No Availability) No Goal.

Community Workforce Program is not applicable to this project.

If you require any additional information, please contact:

William Diaz
Contracts Compliance Specialist 2
Miami-Dade Water & Sewer Department
3071 SW 38 Ave, Suite 107-14, Miami, FL 33146
(786) 552-8084 (Phone) (786) 552-8613 (Fax).

Cc: Isaac Smith

Memorandum



Date: September 26, 2017

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

From: William Diaz
Contract Compliance Specialist II
Miami Dade Water & Sewer

Subject: RPQ P0207 Pump Station 1 and 2 Wet Well Connections

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Pumping Station 2 is located at 1075 Biscayne Blvd. City of Miami, Florida, in Section 31, Township 53 South, Range 42 East, of Miami-Dade County, Florida.

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(786) 552-8084 (Phone) (786) 552-8613 (Fax).

Cc: Isaac Smith

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.: P0207

*Reference corresponding project number when submitting a work order

Contract/Project Title: RPQ P0207 Pump Station 1 and 2 Wet Well Connections

Description/Scope of Work:

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Estimated Cost: 1668477 Funding Source: General funds

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.
390 NW North River Drive ; 1075 Biscayne Blvd; and Force Mains Interconnections at NW 4th Avenue & NW 4th Street, Miami Fl.

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: _____

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:Non CSBE Contractor.

Date submitted to DBD:

Contact Person:WILLIAM DIAZ

Telephone No.:786-552-8084

DEPARTMENTAL INPUT
CONTRACT MEASURE ANALYSIS AND RECOMMENDATION

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

From: William Diaz
Procurement Section.

Department: Miami-Dade Water and Sewer Department

Contract Title: RPQ P0207 Pump Station 1 and 2 Wet Well Connections

Contract No.: MCC-7360 Program

Estimate Amount: \$1,668,477.45 (excluding contingencies and dedicated allowances)

Account Funds: ER #S049392

RECOMMENDATION

Analysis for Recommendation

Item	Description	Estimated Cost	% of Item to Base Bid	CSBE Availability
1.	Pump Station # 1	\$360,299.69	17.91%	
2.	Pump Station # 2	\$179,948.01	8.95%	
3	Force Main Connection NW 4 th Street and NW 4 th Ave.	\$1,128,229.75	56.10%	
4	Sub Total	\$1,668,477.45		
5	Dedicated Allowance (Off-Duty Police, Permits, Gas relocation)	\$159,754.32	7.95 %	
6	Contingency Allowance (Unforeseen conditions, Minor Construction Changes).	\$182,823.18	9.09%	
7	TOTAL	\$2,011,054.96	100%	

Department Head or Authorized Agent.

ENGINEER'S OPINION OF PROBABLE COST

Pump Stations 1 and 2 Wet Well Connections

PCTS NO: 14393
ER NO: S049392

ENGINEER: TRACY ANDERSON, P.E.
DATE: 7/11/2017



PROJECT PLANS COMPLETION PERCENTAGE: Bid

A - CONSTRUCTION ITEMS						
ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL	COMMENTS
Pump Station 1						
1	Mobilization	LS	7.5%	1	\$25,137.19	7.5% of items 2 thru 14
2	Furnish 42-inch DIP	LF	\$450.00	95	\$42,750.00	
3	Install 42-inch DIP	LF	\$450.00	95	\$42,750.00	
4	Furnish & Install 42-inch 45° Bend	EA	\$20,000.00	2	\$40,000.00	
5	Furnish & Install 42-inch 90° Bend	EA	\$20,000.00	2	\$40,000.00	
6	Furnish 42-inch Plug Valve	EA	\$50,000.00	1	\$50,000.00	
7	Install 42-inch Plug Valve	EA	\$10,000.00	1	\$10,000.00	
8	Core/Sawcut Wetwell Wall, install 42-inch DIP and Repair	LS	\$35,000.00	1	\$35,000.00	
9	Trench Over Cut (Contingent Item)	CY	\$10.00	10	\$100.00	
10	Shoring (Contingent Item)	SF	\$6.50	1425	\$9,262.50	
11	Temporary bypass of gas lines and Pipe Chase Replacement	LS	\$10,000.00	1	\$10,000.00	
12	Brick Pavers	SY	\$80.00	500	\$40,000.00	
13	Concrete Pavement	SY	\$40.00	220	\$8,800.00	
14	Removal and Replacement of Metal Grating stairs	LS	\$6,500.00	1	\$6,500.00	
Total of PS-1					\$360,299.69	
Pump Station 2						
1	Mobilization	LS	7.5%	1	\$12,554.51	7.5% of items 2 thru 13
2	Furnish 30-inch DIP	LF	\$375.00	105	\$39,375.00	
3	Install 30-inch DIP	LF	\$375.00	105	\$39,375.00	
4	Furnish 24-inch DIP	LF	\$300.00	15	\$4,500.00	
5	Install 24-inch DIP	LF	\$300.00	15	\$4,500.00	
6	Furnish & Install 30-inch 90° Bend	EA	\$18,000.00	1	\$18,000.00	
7	Furnish & Install 36-inch X 30-inch Reducer	EA	\$15,000.00	1	\$15,000.00	
8	Furnish & Install 30-inch X 24-inch Reducer	EA	\$12,000.00	1	\$12,000.00	
9	Manhole BB1 and Structure Penetration	LS	\$20,000.00	1	\$20,000.00	
10	Trench Over Cut (Contingent Item)	CY	\$10.00	10	\$100.00	
11	Shoring (Contingent Item)	SF	\$6.50	1800	\$11,700.00	
12	Limerock Base Type I	SY	\$12.00	110	\$1,320.00	
13	Asphaltic Concrete Surface Course Type I	SY	\$13.85	110	\$1,523.50	
Total of PS-2					\$179,948.01	

ENGINEER'S OPINION OF PROBABLE COST

Pump Stations 1 and 2 Wet Well Connections

PCTS NO: 14393

ER NO: S049392

ENGINEER: TRACY ANDERSON, P.E.

DATE: 7/11/2017

PROJECT PLANS COMPLETION PERCENTAGE: Bid



A - CONSTRUCTION ITEMS						
ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL	COMMENTS
NW 4th Street and NW 4th Avenue Force Main Connection						
1	Mobilization	LS	7.5%	1	\$78,713.70	7.5% of items 2 thru 45
2	Furnish 2-inch PE Pipe WM	LF	\$15.00	45	\$675.00	
3	Install 2-inch PE Pipe WM	LF	\$20.00	45	\$900.00	
4	Furnish 4-inch DIP WM	LF	\$48.00	20	\$960.00	
5	Install 4-inch DIP WM	LF	\$35.00	20	\$700.00	
6	Furnish 6-inch DIP WM	LF	\$58.00	20	\$1,160.00	
7	Install 6-inch DIP WM	LF	\$40.00	20	\$800.00	
8	Furnish 12-inch DIP WM	LF	\$78.00	120	\$9,360.00	
9	Install 12-inch DIP WM	LF	\$50.00	120	\$6,000.00	
10	Furnish 60-inch DIP	LF	\$750.00	25	\$18,750.00	
11	Install 60-inch DIP	LF	\$750.00	25	\$18,750.00	
12	Furnish 48-inch DIP	LF	\$500.00	60	\$30,000.00	
13	Install 48-inch DIP	LF	\$500.00	60	\$30,000.00	
14	Furnish & Install 60-inch X 48-inch Tee	EA	\$50,000.00	2	\$100,000.00	
15	Furnish & Install 48-inch X 48-inch Tee	EA	\$30,000.00	2	\$60,000.00	
16	Furnish & Install 48-inch 45° Bend	EA	\$25,000.00	2	\$50,000.00	
17	Furnish & Install 48-inch 90° Bend	EA	\$25,000.00	2	\$50,000.00	
18	Furnish 4-inch Gate Valve	EA	\$750.00	3	\$2,250.00	
19	Install 4-inch Gate Valve	EA	\$250.00	3	\$750.00	
20	Furnish 6-inch Gate Valve	EA	\$900.00	3	\$2,700.00	
21	Install 6-inch Gate Valve	EA	\$300.00	3	\$900.00	
22	Furnish 12-inch Gate Valve	EA	\$1,800.00	3	\$5,400.00	
23	Install 12-inch Gate Valve	EA	\$600.00	3	\$1,800.00	
24	Furnish 48-inch Plug Valve	EA	\$80,000.00	3	\$240,000.00	
25	Install 48-inch Plug Valve	EA	\$20,000.00	3	\$60,000.00	
26	Furnish 60-inch Plug Valve	EA	\$155,000.00	1	\$155,000.00	
27	Install 60-inch Plug Valve	EA	\$25,000.00	1	\$25,000.00	
28	Furnish & Install Automatic Air Release Valve (ARV)	EA	\$7,500.00	1	\$7,500.00	
29	4-inch, 6-inch, and 12-inch Cut-in Connections to Existing WM's	EA	\$5,000.00	5	\$25,000.00	
30	2-inch Cut-in Connection to Existing WM	EA	\$1,200.00	1	\$1,200.00	
31	Furnish Fire Hydrant	EA	\$3,500.00	2	\$7,000.00	
32	Install Fire Hydrant	EA	\$1,500.00	2	\$3,000.00	
33	Trench Over Cut (Contingent Item)	CY	\$10.00	10	\$100.00	
34	Shoring (Contingent Item)	LS	\$6.50	1275	\$8,287.50	
35	Limerock Base Type I	SY	\$12.00	180	\$2,160.00	
36	Asphaltic Concrete Surface Course Type I	SY	\$13.85	180	\$2,493.00	
37	Asphaltic Concrete Surface Course Type V	SY	\$5.95	600	\$3,570.00	
38	Milling 1" nominal	SY	\$2.50	300	\$750.00	
39	Valve Adjustment	EA	\$350.00	6	\$2,100.00	
40	Manhole Adjustment	EA	\$600.00	3	\$1,800.00	
41	Pavement Markings Restoration	LS	\$5,000.00	1	\$5,000.00	
42	Concrete Curb and Gutter restoration	LF	\$25.00	210	\$5,250.00	
43	Concrete Sidewalk Replacement	SY	\$34.00	60	\$2,040.00	
44	Remove Abandoned TECO Energy Gas Mains	LS	\$5,000.00	1	\$5,000.00	
45	Maintenance of Traffic	LS	10%	1	\$95,410.55	10% of items 2 thru 44
Total of Connection					\$1,128,229.75	
SUBTOTAL 1 - CONSTRUCTION COSTS:					\$1,668,477.45	

ENGINEER'S OPINION OF PROBABLE COST

Pump Stations 1 and 2 Wet Well Connections

PCTS NO: 14393
ER NO: S049392

ENGINEER: TRACY ANDERSON, P.E.
DATE: 7/11/2017



PROJECT PLANS COMPLETION PERCENTAGE: Bid

A - CONSTRUCTION ITEMS						
ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL	COMMENTS
B - OTHER DIRECT COSTS						
	OFF-DUTY POLICE		\$20,000.00		\$20,000.00	
	PERMITS, BONDS, INSURANCE, MAINTENANCE BOND		3.0%		\$50,054.32	
	TECO GAS MAIN RELOCATION (Dedicated Allowance)		\$89,700.00		\$89,700.00	
	CONSTRUCTION ENGINEERING ADMINISTRATION (CEA)					NOT INCLUDED IN ESTIMATE
SUBTOTAL B - OTHER DIRECT COSTS:					\$159,754.32	
CONSTRUCTION SUBTOTAL (A + B):					\$1,828,231.78	
C - CONTINGENCY						
FOR UNFORSEEN CONDITIONS, MINOR CONSTRUCTION CHANGES, AND QUANTITY ADJUSTMENTS AS ORDERED BY THE ENGINEER (PERCENTAGE OF CONSTRUCTION SUBTOTAL):			10.0%		\$182,823.18	Note: Contingency is Owned by MDWASD and not the Contractor
TOTAL VALUE OF ENGINEER'S OPINION OF PROBABLE COST (A + B + C):					\$2,011,054.96	