

**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.: S-963**

\*Reference corresponding project number when submitting a work order

**Contract/Project Title: Installation of 10" HDPE Sewage Force Main Canal Crossing at NW 16 Ct. and NW 155 Terrace and Cut-In of 60" Plug Valve at NE 10 Ave & NW 159 Street**

**Description/Scope of Work: See Attached**

**Estimated Cost: 734360    Funding Source: General funds**

**Location of Project** (street address or beginning and ending points) i.e. 12345 NE 23<sup>rd</sup> Ct or Starts at 135 St. ends at 145 St.  
**NW 16 Ct. and NW 155 Terrace and at NE 10 Ave & NW 159 Street**

**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
<b>SBE-Cons</b>	\$22,062.37	3.00%	
<b>SBE-G&amp;S</b>	\$3,671.80	0.50%	
	\$	%	

**RECOMMENDATION**

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

**Basis for Recommendation: Due to limited availability, it has been determined that the suggested measures per the attached is appropriate for this project.**

**Date submitted to DBD: 11/12/2020**

**Contact Person: Isaac Smith**

**Telephone No.: 786-552-8989**

**DEPARTMENTAL INPUT  
CONTRACT MEASURE ANALYSIS AND RECOMMENDATION**

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

From: Isaac Smith, Chief  
Construction Contracts Division

Department: Miami-Dade Water and Sewer Department

Contract Title: Installation of 10" HDPE Sewage Force Main Canal Crossing at NW 16 Ct. and NW 155 Terrace and Cut-In of 60" Plug Valve at NE 10 Ave & NW 159 Street

Contract No.: S-963

Estimate Amount: \$734,360 [\$667,600 Construction + \$66,760 Contingency]

Funding Source: WASD Revenue Bonds Sold

<b>Analysis for Recommendation 3.00% SBE-Construction</b>
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Department Head or Authorized Agent

**DESCRIPTION OF PROJECT:**

This project is one in a series of projects that are being processed under Section 2-8.1.12 of the Code, entitled Miami-Dade Water and Sewer Department Consent Decree and Capital Improvement Programs Accelerate Ordinance.

The project consists of cutting in a 60-inch plug valve on a 72-inch force main (NE 10 Ave and NE 159 St) and constructing a 10-inch directional drill for a permanent by-pass under the existing canal at NW 155 Terrace and NW 16 Court. The work of this project includes, but is not limited to, completing the final design for an 10-inch directional drill under the existing canal; furnishing 10" Nominal Pipe Size DR-11.0 (DIPS), PE 4710 HDPE for the canal crossing; fusing the HDPE pipe, filling with water and performing a low pressure test for the welds; constructing horizontal directional drill under the existing canal, complete; making connections to the existing 8-inch force mains on each side of the canal; furnishing and installing transition piece with stainless steel stiffeners; activating the force main installed by directional drill to allow for a by-pass of the sewage flow from North Miami Beach during the shutdown of the 72-inch force main; furnishing and installing reducers, adapters and short pipe length for the cut-in connection; deactivating the flow on the north part of the 72-inch force main cut-in connection with a line-stop; installing the 60-inch plug valve, reducers, adapters and short piece for the cut-in; constructing access manhole for the 60-inch plug valve operator; furnishing and installing 72-inch tapping saddle for the linestop; furnishing and installing tapping saddle for the pressure relief; performing the cut-in work at a low demand time acceptable to the Department; handling any leaking sewage flow; testing the cut-in installation with a visual inspection; removing the linestop and encasing saddle for corrosion protection; providing as-built record documents; milling, temporary and permanent pavement repairs, installing pavement markings and

signing; and any other appurtenant and miscellaneous items and work for a complete, functional and satisfactory installation with material and methodology that will meet all requirements stated in the Performance Criteria Package.

Bidders will be required as part of their bids to submit a Confirmation Letter signed and sealed by a State of Florida Professional Engineer that confirms that the proposed design can be completed for the price provided as part of the Bid. The letter shall also provide a brief description of the proposed design and confirm that materials will meet or exceed the requirements of this performance specification.

**NOTE: THIS PROJECT WILL BE BID UNDER RTQ-00298 PRE-QUALIFICATION FOR TRENCHLESS TECHNOLOGIES, FOR COMPETITION AMONG ALL GROUP 2 BIDDERS.**

### **CONSIDERATIONS FOR SBE-CONS ANALYSIS:**

Technical Requirements for Directional Drill and Valve Cut-in: The Contractor shall construct a 10-inch directional drill cut-in the plug valve with the following Technical Requirements.

1. Pipe Material for directional drill shall be 10-inch HDPE with a min. SDR 11 (DIPS).
2. Design Pressure shall be 100 psi for all of the project.
3. Directional Drill installation shall pass a pressure test of 100 psi for 2 hours.
4. Min. Depth of 10 feet below the design canal bottom.
5. The Contractor shall meet all requirements specified under Section 02446 HDPE Pipe Horizontal Directional Drill.
6. The Contractor is required to provide their own geotechnical investigation and incorporate the information into their design.
7. The Contractor shall secure the services of a Linestop Specialist to stop the flow of the 72-inch force main from the north.
8. The Contractor shall have previous experience working with large diameter concrete pipe (PCCP 48-inches or larger). The crew foreman shall have the experience along with other key personnel.

**LICENSES:** The types of licenses required are: General Contracting, General Engineering, State Underground, Pipeline and/or other categories as applicable by Chapter 489 of the Florida Statutes or Chapter 10 of Miami-Dade County Code.

### **COMMUNITY WORKFORCE PROGRAM**

**CWP PARTICIPATION: Not Applicable.**

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Contract No.: S-963

Estimate Amount: \$734,360 [\$667,600 Construction + \$66,760 Contingency]

**Analysis for Recommendation  
0.50% SBE-Goods**

Department Head or Authorized Agent

**CONSIDERATIONS FOR SBE-G/S ANALYSIS:**

1. The Project consists of cutting in a 60-inch plug valve on a 72-inch force main (NE 10 Ave and NE 159 St) and constructing a 10-inch directional drill for a permanent by-pass under the existing canal at NW 155 Terr and NW 16 Court.
2. The Department has evaluated the project for possible opportunities for participation in the area of SBE – Goods and Services. There are very limited opportunities for participation in this project.
3. **The Department's recommendation is 0.50% for Goods.**

<b>Analysis for Small Business Enterprise – Goods and Services Recommendation</b>				
Item	Goods & Services	Prime Contractor	Sub-Contractor	SBE Availability
1.	<b>GOODS:</b> PCCP Pipe & Fittings PVC C900 Pipe & Fittings	X	X	X
2.	<b>SERVICES</b> Cutting of Concrete Pipe Linestop Installation Pavement Markings Milling & Paving Trenchless Pipe Installation Maintenance of Traffic	X	X X X X X	X