

## SBD - CM Review Form

<b>To:</b>	Project Review and Analysis - A&E	<b>Contact:</b>	Patty D. Palomo
<b>From:</b>	SBD CM - Eddy V. Etienne Jr.	<b>Resubmittal:</b>	No
<b>Dept.:</b>	Miami-Dade Water & Sewer Department		
<b>Date:</b>	11/3/2015		

<b>PROJECT NUMBER:</b>	DB15-WASD-03
	Deisgn-Build Services for Installation of a 48inch Diameter Water Main Downtown Loop
<b>PROJECT TITLE:</b>	Closure
<b>PROJECT LOCATION:</b>	NW 17 St & NW 1 Pl - NW 6 St & NW 1 Ct - NW 6 St from NW 1 Ave to NW 1 Ct

**SCOPE OF WORK/DESCRIPTION:** The Design-Builder shall provide, but is not limited to engineering, design, survey, technical specifications, permitting and inspection to support the construction, installation, testing and commissioning activities associated with the construction of a new 48-inch and 36-inch water main. The Design-Builder should also comply with all other required construction methods for this work, including those to minimize noise, dust and other impacts to surrounding residential neighborhoods. The design and construction services rendered by the Design-Builder shall result in a complete, functional and operable piping project with a standard design life.

The Project includes the following main elements:

- Furnish and install approximately 4780 linear feet of 48-inch diameter and 2370 linear feet of 36-inch prestressed concrete cylinder pipe for water service. Pipe material shall be in accordance with the American Water Works Association Standard C304;
- Furnish and install all ancillary piping, tie-in connections and piping, required to facilitate successful construction and commissioning of the new 36-inch and 48-inch water main without any interruption of service to existing WASD customers;
- Furnish and install a 48-inch diameter water main including a casing pipe under active railroads using micro-tunnel or other trenchless construction installation technique;
- Furnish and install a 36-inch diameter water main under Biscayne Boulevard using micro-tunnel or other trenchless construction installation technique;
- Provide launching and receiving pits for the micro-tunnel installation;
- Connect to the existing 48-inch water main just south of N.W. 17 Street and N.W. 1 Place;
- Connect to the existing 36-inch water main at N.W. 6 Street and N.W. 1 Court;
- Provide all required valves and piping to facilitate connection of the existing water mains to the new water main;
- Provide air release valve assemblies at all high points on the new water main;
- Relocate existing utilities in conflict with the alignment of the water main, as required by the Engineer;
- Remove, transport, salvage and/or legally dispose of construction and demolition materials including asphalt pavement, concrete pavement, miscellaneous concrete, unsuitable backfill material, pipe, valves and sod;
- Sheeting and shoring ordered left in place by the Engineer;
- Furnish and place suitable backfill for pipe bedding and backfill, as required by the Engineer;
- Construct and restore pedestrian curb ramps and detectable warning surfaces, temporary and permanent replacement or relocation of any utilities, pavement, sidewalk, curb and gutter, valley gutter, trees, landscaping, sod, pavement markings and/or driveway damaged during construction to a condition equal to or better than at the start of construction;
- Furnish all materials, equipment, supplies, and labor necessary for cleaning, testing, commissioning and placing the new water main into service;
- Remove existing 30-inch water main on N.W. 6 Street from N.W. 1 Avenue to N.W. 1 Court;
- Design, permit and maintain all required vehicle and pedestrian traffic control measures; and
- Provide all other appurtenant and miscellaneous items and work for a complete and fully functional installation.

The scope of services shall include all professional services, all labor, supervision, quality control, project controls, safety programs, materials, tools, equipment, services, methods and procedures necessary or convenient for the Design-Builder to fulfill all duties and obligations imposed by the Contract Documents, which can be reasonably assumed as necessary to fulfill the intent of the Contract Documents and to provide a complete, fully functional and satisfactory Project.

The Design-Builder must complete the Work within the durations specified below, which exclude the warranty administration period:

- Substantial Completion on or before 730 calendar days after the date of Notice to Proceed which requires placing into service all new water mains and connections within the public right-of-way and shall include all work associated with surveying, geotechnical investigations, engineering, design, technical specifications, permitting, construction, testing and commissioning services for the complete and fully operational installation of the new 48-inch and 36-inch diameter water main and reopening all roads and sidewalks to traffic.
- Final Completion and Project Closeout on or before 820 calendar days after the date of Notice to Proceed which requires Final Completion and Project Closeout: including obtaining acceptance by all applicable regulatory agencies including WASD, of all Work and Services under the

Initial: EE

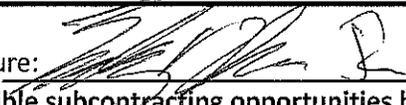
Date: 11-4-15

Contract, including all remaining site restorations, record documents, and all other remaining incomplete or unacceptable work items identified at or subsequent to Substantial Completion.

If the Design-Builder does not achieve Substantial Completion by the established Substantial Completion Contract Date, Liquidated Damages (LDs) will be assessed in the amount of \$2,500 per calendar day, which will be paid to the County by the Design-Builder. If the Design-Builder does not achieve Final Completion by the established Final Completion Contract Date, LDs will be assessed in the amount of one thousand dollars (\$1,000) per calendar day, which will be paid to the County by the Design-Builder. LDs will be cumulative if both the Substantial Completion Contract Date and the Final Completion Contract Date are exceeded. All assessments of LDs to the Design-Builder may be adjustments to payments due to the Design-Builder.

SPECIAL REQUIREMENTS: N/A

Technical Category	CATEGORIES	%	COMMENTS
			PRIME
3.02A	HIGHWAY SYSTEMS – TUNNEL DESIGN	1%	
			SUB-CONSULTANT
6.01	WATER AND SANITARY SEWER SYSTEMS – WATER DISTRIBUTION AND SANITARY SEWAGE COLLECTION AND TRANSMISSION	30%	
16.00	GENERAL CIVIL ENGINEERING	30%	
3.04	HIGHWAY SYSTEMS – TRAFFIC ENGINEERING STUDIES	5%	
9.02	SOILS, FOUNDATIONS AND MATERIALS TESTING – GEOTECHNICAL AND MATERIALS ENGINEERING SERVICES	2%	
9.03	SOILS, FOUNDATIONS AND MATERIALS TESTING – CONCRETE AND ASPHALT TESTING SERVICES	1%	*Possible Small Business Participation
9.04	SOILS, FOUNDATIONS AND MATERIALS TESTING – NON-DESTRUCTIVE TESTING AND INSPECTIONS	1%	
10.05	ENVIRONMENTAL ENGINEERING – CONTAMINATION ASSESSMENT AND MONITORING	1%	
11.00	GENERAL STRUCTURAL ENGINEERING	1%	
12.00	GENERAL MECHANICAL ENGINEERING	5%	
15.01	SURVEYING AND MAPPING – LAND SURVEYING	3%	
15.03	LOCATION	5%	
17.00	ENGINEERING CONSTRUCTION MANAGEMENT	15%	
		100%	
Base Fees for Engineering		\$1,213,147.00	
10% Contingency		\$121,314.70	
Total Fees for Engineering		\$1,334,461.70	

Small Business Development CM Signature: 

Date:

11-4-15

\*Trades/Sub-Trades identified for possible subcontracting opportunities by SBD CM

WASD is recommending

20%

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## SBD - CM Review Form

<b>To:</b> Project Review & Analysis - Construction	
<b>From:</b> SBD CM - Eddy V. Etienne Jr.	
<b>Department:</b> Miami-Dade Water & Sewer Department	<b>Contact:</b> Patty D. Palomo
<b>Date:</b> 11/3/2015	<b>Resubmittal:</b> No

<b>PROJECT NUMBER:</b>	DB15-WASD-( Design-build Services for Installation of a 48inch Diameter Water Main Downtown Loop
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<b>PROJECT LOCATION:</b>	NW 17 St & NW 1 Pl - NW 6 St & NW 1 Ct - NW 6Ts from NW 1 Ave to NW 1 Ct

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**SPECIAL REQUIREMENTS:** 1. Lead Constructors:

- a. The Lead Construction firm performing the open cut installation work must have successfully constructed at least one (1) pressure pipeline project of similar size and complexity in an urban environment and a minimum thirty-six (36) inch nominal

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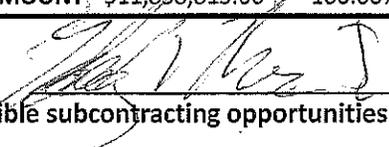
diameter pipe.

b. The Lead Construction firm performing micro-tunnel installation of the water pipe must have successfully constructed at least one (1) project utilizing micro-tunnel technique (minimum of 36-inch pipe). To qualify, the installation must have been a minimum of thirty-six (36) inch internal diameter in ground conditions similar to those expected, such as high ground water level conditions.

c. The Lead Construction firm performing the shaft construction shall have successfully constructed at least one (1) shaft that was at least twenty-five (25) feet below ground surface. The shaft must have been extended below groundwater and required means of controlling inflow and bottom heave of the shaft.

d. Design-Builder must submit evidence of the Lead Constructors and Pipe Installation Crews past performance completing projects of similar size and complexity on schedule and to the satisfaction of the facility owner.

TRADES/SUBTRADES	AMOUNT	PERCENTAGE	COMMENTS
<b>Prime - General Engineering Contractor</b>			
Water main construction (includes mobilization, furnish and installation, tapping and connections, trenches construction, bypass pumping, utility relocation, dewatering, demolition, valves and assemblies)	\$10,913,276.00	92.18%	
<b>Pavement Contractor</b>			
Pavement Restoration	\$239,121.00	2.02%	
<b>Concrete, Highway Street &amp; Bridge Contractor</b>			
Miscellaneous restorations (sidewalks, curb & gutter)	\$122,663.00	1.04%	
<b>BASE TOTAL</b>			
	\$11,275,060.00	95.24%	
Contingency Allowance (5% of Base Estimate)	\$563,753.00	4.76%	
<b>TOTAL AMOUNT</b>			
	\$11,838,813.00	100.00%	

Small Business Development Signature: 

Date: 11-5-15

\*Trades/Sub-Trades identified for possible subcontracting opportunities by SBD CM

WASD is recommending 8.06%