

DEPARTMENTAL INPUT  
CONTRACT MEASURE ANALYSIS AND RECOMMENDATION

To: Penelope Townsley, Director  
Department of Business Development

From: Leonardo Vargas AO 3  
Procurement Section

Department: Miami-Dade Water and Sewer Department

Contract Title: RPQ P0076 Furnish and Install 2-72-Inch Butterfly Valves in existing 72-inch P.C.C.P.

Contract No.: CICC7360-0/08

Estimated Amount: \$481,212.75 (\$481,212.75 + \$72,637.66) (Contingency and Dedicated Allowances)

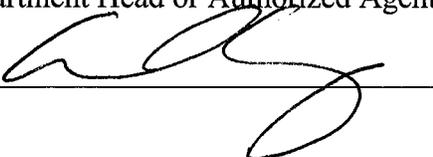
Account Funds:

Recommendation : No Goal

Analysis for Recommendation

| Item | Description  | Estimated Cost | % of Item to Base Bid | CSBE Availability |
|------|--|----------------|-----------------------|-------------------|
| 1.   | This project consists of labor, coordination and all equipment necessary to complete the project | \$481,212.75   | 85                    |                   |
| 2.   | 3% Permit Fee  | \$14,436.38    | 3                     |                   |
| 3.   | Dedicated Allowance  | \$10,080.00    | 2                     |                   |
| 4.   | 10 % Allowance   | \$ 48,121.28   | 10                    |                   |
|      | Total =<br>\$553,850.41  |                |                       |                   |

Department Head or Authorized Agent



**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.:** P0076

\*Reference corresponding project number when submitting a work order

**Contract/Project Title:** Furnish and Install 2-72-Inch Butterfly Valves in existing 72-Inch P.C.C.P.

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

**Estimated Cost:** \$481,212.75 **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.  
6800 SW 87 AVENUE

**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:** The project needs to be bid under the 7360 contract to obtain enough bidders with experience in the installation of large diameter concrete pipe. A qualification to have the minimum experience requirement of previous work on 54-inch or larger concrete pipe has been added to the project.

For a contractor to properly install and in this case remove two lengths of large diameter concrete pipe he needs to be experienced in working with the concrete pipe joints. Concrete pipe joints and homed together and grouted. The 72-inch valves require the installation of adapters and connections to the existing main require closure pieces. Ductile iron pipe installation is easier and more lightweight by comparison.

This 72-inch concrete pipe is outside of the Alexander Orr Water Treatment Plant and critical to the WASD's needs. Thus the WASD request the project be bid under the 7360 contract.

**Date submitted to DBD:** 12/4/2011

**Contact Person:** Jose Vilaboy, Telephone: 786-552-8056

**FURNISH AND INSTALL 2-72 INCHES BUTTERFLY VALVES IN EXISTING  
72-INCH PCCP AT S.W. 64 ST. BY ALEXANDER ORR WATER TREATMENT PLANT  
PCTS No. 11631, (MDWASD PROJECT No. W016530) (REV. 10/18/2011)**

MUNICIPALITY: UNINCORPORATED MIAMI-DADE

Sec. 28, Twp. 54, Rge. 40

Commissioner District 7

| Item | Description   | Qty | Units         | \$/Units    | Total       |
|------|---|-----|---------------|-------------|-------------|
| 1.   | For performing preparatory work and operations in <b>Mobilizing</b> for beginning the work of the Project, including preparation and acceptance of M.O.T., but excluding materials and permit costs, both of which are paid under other payment items, and <b>Demobilization</b> . (approx. 4% (+/-) of the sum of items (2) thru (27). |     | Aggregate Sum |             | \$18,000.00 |
| 2.   | For selling and delivering to the Department 72-inch Prestressed Concrete ECP FR Closure assembly, 8 ft. L.L.. <i>(One (1) Std. Follower Ring Bell x one (1) Follower ring bell for testable joint).</i>  | 2   | Each          | \$14,409.00 | \$28,818.00 |
| 3.   | For selling and delivering to the Department 72-inch Prestressed Concrete ECP <i>Testable joint spigot x Bell for Testable Joint</i> , Short, 4 ft. L.L.  | 1   | Each          | \$5,555.00  | \$5,555.00  |
| 4.   | For selling and delivering to the Department 72-inch Prestressed Concrete ECP <i>Testable joint spigot x Bell for Testable Joint</i> , Short, 4 ft. L.L., w/ 1.5" MTO, 2.0' FSE.  | 1   | Each          | \$6,525.00  | \$6,525.00  |
| 5.   | For selling and delivering to the Department 72-inch Prestressed Concrete ECP Std. Spigot x <i>Bell for Testable Joint</i> , Short, w/ 24-inch M.J. Outlet, 16.03 ft. L.L.  | 1   | Each          | \$13,976.00 | \$13,976.00 |
| 6.   | For selling and delivering to the Department 72-inch Prestressed Concrete ECP <i>Testable joint spigot x Testable joint spigot</i> , Adapter, 1.27 ft. L.L.   | 2   | Each          | \$4,560.00  | \$9,120.00  |
| 7.   | For selling and delivering to the Department 72-inch Prestressed Concrete ECP <i>Bell for Testable Joint x Testable joint Spigot</i> Full Bevel Adapter, 1.21 ft. L.L.  | 1   | Each          | \$5,300.00  | \$5,300.00  |
| 8.   | For selling and delivering to the Department 72-inch Prestressed Concrete ECP <i>Bell for Testable Joint x Std. Spigot</i> Full Bevel Adapter, 1.21 ft. L.L.  | 1   | Each          | \$5,070.00  | \$5,070.00  |
| 9.   | For selling and delivering to the Department 72-inch Prestressed Concrete ECP <i>Bell for Testable joint x FLG. Adapter</i> , 1.66 ft. L.L.   | 2   | Each          | \$12,025.00 | \$24,050.00 |
| 10.  | For selling and delivering to the Department 72-inch Prestressed Concrete ECP <i>Testable Joint spigot x FLG. Adapter</i> , 2.05 ft. L.L.   | 2   | Each          | \$12,255.00 | \$24,510.00 |

## PRELIMINARY ESTIMATE PROPOSAL

File: W016530 (2-BV - ESTIMATE) (REV 10-18-2011).xls

**FURNISH AND INSTALL 2-72 INCHES BUTTERFLY VALVES IN EXISTING  
72-INCH PCCP AT S.W. 64 ST. BY ALEXANDER ORR WATER TREATMENT PLANT  
PCTS No. 11631, (MDWASD PROJECT No. W016530) (REV. 10/18/2011)**

MUNICIPALITY: UNINCORPORATED MIAMI-DADE

Sec. 28, Twp. 54, Rge. 40

Commissioner District 7

| Item | Description  | Qty | Units     | \$/Units     | Total        |
|------|--|-----|-----------|--------------|--------------|
| 11.  | For dewatering the existing 72-inch PCCP water main.   |     | Aggr. Sum |              | \$2,500.00   |
| 12.  | For removal of existing 72-inch PCECP pipe segments (approx. 32 L.F. of existing pipe, on the east location, and 16 L.F. of exist. pipe, on the west location), complete.  | 48  | Lin. Ft.  | \$250.00     | \$12,000.00  |
| 13.  | For installing 72-inch PCECP and fittings, for Water Transmission Main.  | 48  | Lin. Ft.  | \$300.00     | \$14,400.00  |
| 14.  | For making a connection to an existing 72-inch PCECP Water Transmission Main, complete.  | 4   | Each      | \$2,000.00   | \$8,000.00   |
| 15.  | For selling and delivering to the Department 72-inch FLG. x FLG. Butterfly Valve w/ operator for buried service, for underground Water Transmission Main, including reinforced concrete butterfly valve manhole, per MDWASD standard details WS 3.14, pages 1 of 3 through 3 of 3. | 2   | Each      | \$105,000.00 | \$210,000.00 |
| 16.  | For installing 72-inch FLG. x FLG. Butterfly Valve w/operator for buried service, for underground Water Transmission Main, including reinforced concrete butterfly valve manhole, per MDWASD standard details WS 3.14, pages 1 of 3 through 3 of 3.                                | 2   | Each      | \$12,000.00  | \$24,000.00  |
| 17.  | For furnishing and installing Access Manhole assembly (includes wire mesh reinforced concrete base, 60-inch diameter aluminized steel corrugated metal pipe riser (0.168-inch thick min.), top reinforced concrete slab, brick masonry and manhole frame and cover), complete.     | 1   | Each      | \$6,000.00   | \$6,000.00   |
| 18.  | For restoration of damaged grass areas   | 96  | Sq. Yds.  | \$3.50       | \$336.00     |
| 19.  | For constructing limerock base for Type "I" permanent paving repairs.  | 120 | Sq. Yds.  | \$16.00      | \$1,920.00   |
| 20.  | For constructing asphaltic concrete surface course for Type "I" permanent paving repairs.  | 120 | Sq. Yds.  | \$14.00      | \$1,680.00   |
| 21.  | For milling existing asphalt pavement to an average depth of 1", complete.   | 265 | Sq. Yds.  | \$5.00       | \$1,325.00   |

## PRELIMINARY ESTIMATE PROPOSAL

**FURNISH AND INSTALL 2-72 INCHES BUTTERFLY VALVES IN EXISTING  
72-INCH PCCP AT S.W. 64 ST. BY ALEXANDER ORR WATER TREATMENT PLANT  
PCTS No. 11631, (MDWASD PROJECT No. W016530) (REV. 10/18/2011)**

MUNICIPALITY: UNINCORPORATED MIAMI-DADE

Sec. 28, Twp. 54, Rge. 40

Commissioner District 7

| Item   | Description   | Qty | Units                              | \$/Units | Total                 |
|--|---|-----|------------------------------------|----------|-----------------------|
| 22.  | For resurfacing, using Type "V" pavement repairs (nominal one-inch thick machine-laid asphaltic concrete surface overlay).  | 265 | Sq. Yds.                           | \$8.00   | \$2,120.00            |
| 23.  | For trench overcut for any size pipe in 1-foot depth increments.  | 30  | Lin. Ft.<br>(Contingent Item)      | \$5.00   | \$150.00              |
| 24.  | For relocation of 150 ft. of existing 4-inch steel gas main, if said main is found to be in conflict with the proposed installation, (furnish and install), complete.               |     | Aggregate Sum<br>(Contingent Item) |          | \$25,000.00           |
| 25.  | For sheeting and shoring ordered left in place by the Engineer.   | 400 | Sq. Ft.<br>(Contingent Item)       | \$20.00  | \$8,000.00            |
| 26.  | For replacement of pavement markings damaged, removed or obliterated by the Contractor's operations.  |     | Aggr. Sum                          |          | \$800.00              |
| 27.  | For furnishing and installing Traffic Control, for the project, complete. (5 % of the sum of items (2) thru (26) ).   |     | Aggregate Sum                      |          | \$22,057.75           |
| 28.  | The total of items (1) thru (27)  |     | <b>SUBTOTAL 1 =</b>                |          | <b>\$481,212.75</b> * |
| 29.  | For the cost of providing 1 off-duty police officer as required (1 x \$42.00/hr x 8 hrs. x 30 days).  |     | Dedicated Allowance                |          | \$10,080.00           |
| 30.  | For cost of required permits, fees, inspections, impact fees, if authorized by the Engineer, (3% of amount in SUBTOTAL 1, shown above), (0.03 x Subtotal 1, item 28).               |     |                                    |          | \$14,436.38           |
| 31.  | For unforeseen conditions, for minor construction changes, and for quantity adjustments, if ordered by the Engineer, (10% of SUBTOTAL 1 shown above), (0.10 x Subtotal 1, item 28). |     | Dedicated Allowance Account        |          | \$48,121.28           |
| 32.  |   |     | <b>CONSTRUCTION GRAND TOTAL =</b>  |          | <b>\$553,850.41</b>   |
| <b>Notes:</b>  |   |     |                                    |          |                       |
| 1) Cost for removal and / or relocation of trees is not included in this estimate. |   |     |                                    |          |                       |

**SPECIFICATIONS  
FOR  
FURNISH AND INSTALL 2-72-INCH BUTTERFLY VALVES IN EXISTING 72-INCH P.C.C.P.  
AT SW 64 ST BY ALEXANDER ORR WATER TREATMENT PLANT  
ER No. WO16530**

1.00 SCOPE

The Project consists of furnish and install two (2) isolation 72-inch butterfly valves on existing 72-inch prestressed concrete cylinder pipe (PCCP) transmission main at SW 64<sup>th</sup> Street on the east and west sides of the connection point to the Alexander Orr Water Treatment Plant as shown on plans.

The Contractor shall furnish and install all labor, materials and supplies, including but not limited to, furnishing and installing the two (2) 72-inch butterfly valves, flanged; furnishing and installing 72-inch Prestressed Concrete Cylinder Pipe, adapters and fitting; furnishing and installing access manhole assembly including wire mesh, reinforced concreated, 60-inch diameter aluminized steel corrugated metal pipe, top reinforced concrete slab, brick masonry and manhole frame and cover; removal, transport, salvage and legal disposal of existing 72-inch PCCP as shown on plans; making connections to existing 72-inch PCCP water transmission mains; dewatering and cleaning the main; sheeting and shoring left in place as ordered by the Engineer; temporary and permanent paving repairs, including full pavement width surface overlay and milling as shown on plans; replacement of any sod or damaged grass area, pavement damaged during construction; site restoration; curb and gutter restoration; traffic control; replacing pavement markings; cleaning, testing and disinfecting the main; providing traffic control and a Maintenance of Traffic plan (MOT) for the construction area; providing off-duty police for traffic control as may be required by the Department or governing authorities; coordinating with Department forces; and other appurtenant and miscellaneous items and work for a complete, fully functional and satisfactory installation of the project located in Sections 28 of Township 54 S. Range 40 E., Miami-Dade County, Florida.

It is the intent of the Department to obtain a complete and working installation under this contract, and any items of labor, equipment and materials which may reasonably be assumed as necessary to accomplish this end shall be supplied, whether or not they are specifically stated herein.

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 protection. 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.

|        |  |
|--------|--|
| AASHTO | American Association of State Highway and Transportation Officials |
| ANSI   | American National Standards Institute                              |
| ASTM   | American Society for Testing and Materials                         |
| AWWA   | American Water Works Association                                   |
| FDOT   | Florida Department of Transportation                               |
| WASD   | Miami-Dade Water and Sewer Department                              |

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